

PC8-E
HSPT reader/punch
engineering drawings

digital equipment corporation • maynard, massachusetts

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DRA 131

Dec 16 (325) - 1048 - N471

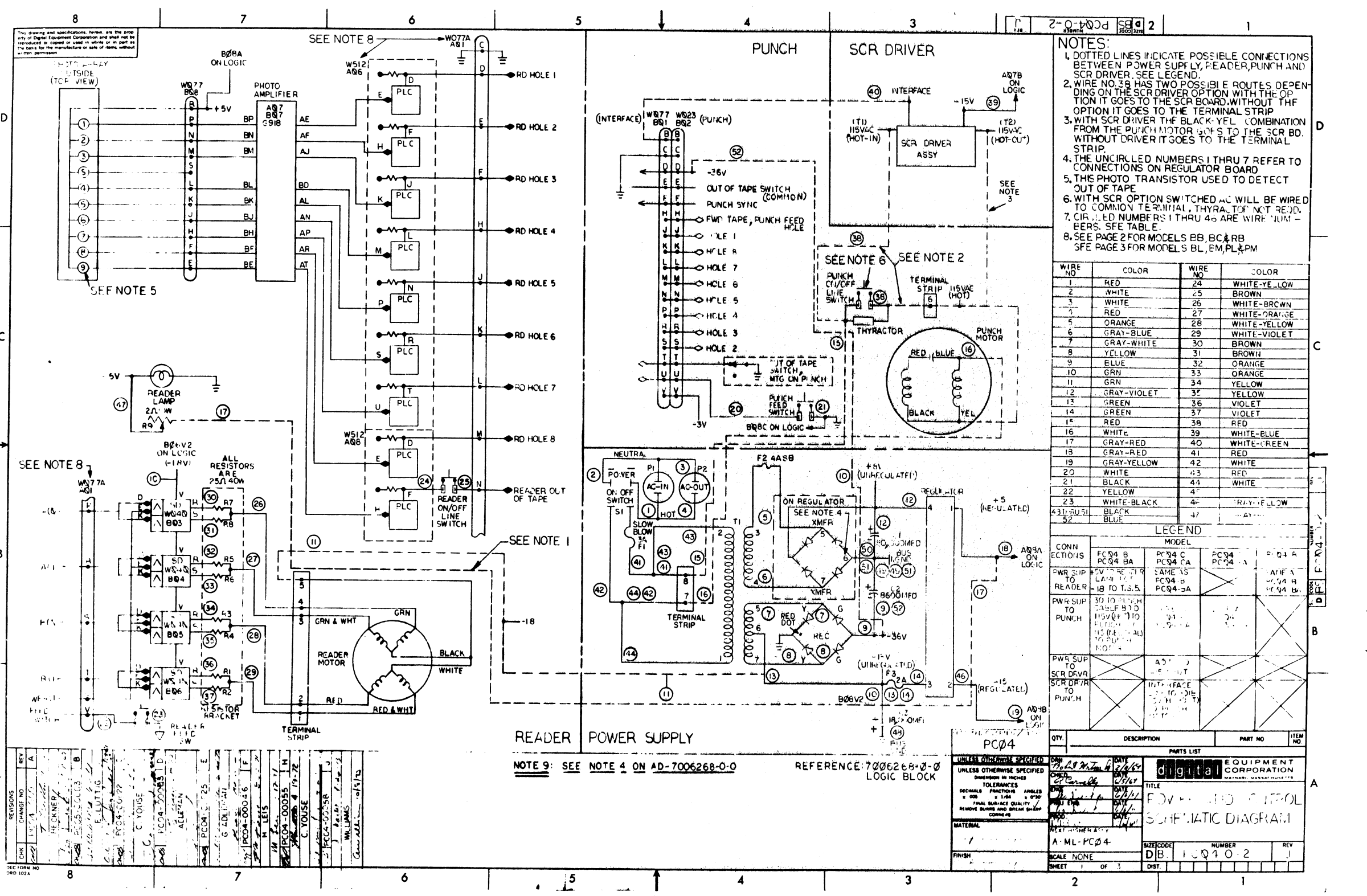
PRINT SET			DWG. NO.	REV. NO. OF SHEETS	TITLE	OPTION NO.
X			D-DI-PC04-0-1	2	DRAWING INDEX	
X			D-BS-PC04-0-2	3	POWER + CONTROL SCHEMATIC DIAGRAM (REFERENCE)	
X			B-CS-M113-0-1	4	10-2 INPUT NAND GATES	
X			B-CS-5408308-0-1	4	POWER P' GULATOR CIRCUIT SCHEMATIC	
X			B-CS-5408385-0-1	4	SCR DRIVER CIRCUIT SCHEMATIC	
X			B-CS-M044-0-1	4	SOLENOID DRIVERS	
X			D-CS-M710-0-1	4	PUNCH CONTROL M710	
X			B-CS-M040-0-1	4	SOLENOID DRIVERS	
X			D-CS-M7050-0-1	4	READER CONTROL M7050	
X			D-CS-M715-0-1	4	READER CLOCK M715	
X			D-CS-G918-0-1	4	PHOTO TRANSISTOR AMPLIFIER G918	
X			E-CS-M840-0-1	4	READER PUNCH CONTROL	
X			D-MU-PC04-0-3	0	MODULE UTILIZATION	
X			A-PL-PC04-0-3	0	MODULE UTILIZATION (PARTS LIST)	
X			B-CS-5408018-0-1	4	POWER REGULATOR CIRCUIT SCHEMATIC	
X			A-SP-PC04-0-4	A	PC04 ENGINEERING SPECS	
X			B-CS-5408310-0-1	4	POWER REGULATOR CIRCUIT SCHEMATIC	
X			D-UA-PC04-0-0	P	READER + PUNCH	
X			C-PL-PC04-0-0	P	READER + PUNCH (PARTS LIST)	
X			E-AD-7006268-0-0	H	WIRED ASSY	
X			A-PL-7006268-0-0	H	WIRED ASSY	
X						
X			D-BS-PC04-CL-PNCH	1	PUNCH	
X			D-BS-PC04-CL-RD	1	READER & POWER SUPPLY	
X						
X			K-WL-PC04-0-5	H	WIRE LIST PC04-B, BA, BB, BC, C, CA, P, PA, R, RB	
X			K-WL-PC04-0-6	H	WIRE LIST PC04-BL, BM, PL, PN, RL	
X			K-WL-PC04-0-7	H	WIRE LIST PC04-CL, CM	
X			A-AL-PC04-0-08	1	ACCESSORY LIST	
TITLE			PAPER TAPE READER		REV H	
			SHEET 2 OF 2		NUMBER PC04-0	
			SIZE CODE A M L			

DRA 132

DLC 16 (325) 1048 1 N471

REV'SIONS		CHANGES		REV.	
DATE	BY	NO.	DESCRIPTION	DATE	BY
10-10-69	PC04-00006	A	BECKNER	10-10-69	PC04-00006
10-10-69	PC04-00007	B	BECKNER	10-10-69	PC04-00007
10-10-69	PC04-00008	C	BECKNER	10-10-69	PC04-00008
10-10-69	PC04-00009	D	BECKNER	10-10-69	PC04-00009
10-10-69	PC04-00010	E	BECKNER	10-10-69	PC04-00010
10-10-69	PC04-00011	F	BECKNER	10-10-69	PC04-00011
10-10-69	PC04-00012	G	BECKNER	10-10-69	PC04-00012
10-10-69	PC04-00013	H	BECKNER	10-10-69	PC04-00013
10-10-69	PC04-00014	I	BECKNER	10-10-69	PC04-00014
10-10-69	PC04-00015	J	BECKNER	10-10-69	PC04-00015
10-10-69	PC04-00016	K	BECKNER	10-10-69	PC04-00016
10-10-69	PC04-00017	L	BECKNER	10-10-69	PC04-00017
10-10-69	PC04-00018	M	BECKNER	10-10-69	PC04-00018
10-10-69	PC04-00019	N	BECKNER	10-10-69	PC04-00019
10-10-69	PC04-00020	O	BECKNER	10-10-69	PC04-00020
10-10-69	PC04-00021	P	BECKNER	10-10-69	PC04-00021
10-10-69	PC04-00022	Q	BECKNER	10-10-69	PC04-00022
10-10-69	PC04-00023	R	BECKNER	10-10-69	PC04-00023
10-10-69	PC04-00024	S	BECKNER	10-10-69	PC04-00024
10-10-69	PC04-00025	T	BECKNER	10-10-69	PC04-00025
10-10-69	PC04-00026	U	BECKNER	10-10-69	PC04-00026
10-10-69	PC04-00027	V	BECKNER	10-10-69	PC04-00027
10-10-69	PC04-00028	W	BECKNER	10-10-69	PC04-00028
10-10-69	PC04-00029	X	BECKNER	10-10-69	PC04-00029
10-10-69	PC04-00030	Y	BECKNER	10-10-69	PC04-00030
10-10-69	PC04-00031	Z	BECKNER	10-10-69	PC04-00031
10-10-69	PC04-00032	AA	BECKNER	10-10-69	PC04-00032
10-10-69	PC04-00033	AB	BECKNER	10-10-69	PC04-00033
10-10-69	PC04-00034	AC	BECKNER	10-10-69	PC04-00034
10-10-69	PC04-00035	AD	BECKNER	10-10-69	PC04-00035
10-10-69	PC04-00036	AE	BECKNER	10-10-69	PC04-00036
10-10-69	PC04-00037	AF	BECKNER	10-10-69	PC04-00037
10-10-69	PC04-00038	AG	BECKNER	10-10-69	PC04-00038
10-10-69	PC04-00039	AH	BECKNER	10-10-69	PC04-00039
10-10-69	PC04-00040	AI	BECKNER	10-10-69	PC04-00040
10-10-69	PC04-00041	AJ	BECKNER	10-10-69	PC04-00041
10-10-69	PC04-00042	AK	BECKNER	10-10-69	PC04-00042
10-10-69	PC04-00043	AL	BECKNER	10-10-69	PC04-00043
10-10-69	PC04-00044	AM	BECKNER	10-10-69	PC04-00044
10-10-69	PC04-00045	AN	BECKNER	10-10-69	PC04-00045
10-10-69	PC04-00046	AO	BECKNER	10-10-69	PC04-00046
10-10-69	PC04-00047	AP	BECKNER	10-10-69	PC04-00047
10-10-69	PC04-00048	AQ	BECKNER	10-10-69	PC04-00048
10-10-69	PC04-00049	AR	BECKNER	10-10-69	PC04-00049
10-10-69	PC04-00050	AS	BECKNER	10-10-69	PC04-00050
10-10-69	PC04-00051	AT	BECKNER	10-10-69	PC04-00051
10-10-69	PC04-00052	AU	BECKNER	10-10-69	PC04-00052
10-10-69	PC04-00053	AV	BECKNER	10-10-69	PC04-00053
10-10-69	PC04-00054	AW	BECKNER	10-10-69	PC04-00054
10-10-69	PC04-00055	AX	BECKNER		

[illegible]



- NOTES:**
- 1. DOTTED LINES INDICATE POSSIBLE CONNECTIONS BETWEEN POWER SUPPLY, READER, PUNCH AND SCR DRIVER. SEE LEGEND.
 - 2. WIRE NO. 38 HAS TWO POSSIBLE ROUTES. DEPENDING ON THE SCR DRIVER OPTION WITH THE OPTION IT GOES TO THE SCR BOARD. WITHOUT THE OPTION IT GOES TO THE TERMINAL STRIP.
 - 3. WITH SCR DRIVER THE BLACK-YEL COMBINATION FROM THE PUNCH MOTOR GOES TO THE SCR BD. WITHOUT DRIVER IT GOES TO THE TERMINAL STRIP.
 - 4. THE UNCIRCLED NUMBERS 1 THRU 7 REFER TO CONNECTIONS ON REGULATOR BOARD
 - 5. THIS PHOTO TRANSISTOR USED TO DETECT OUT OF TAPE
 - 6. WITH SCR OPTION SWITCHED AC WILL BE WIRED TO COMMON TERMINAL. THYRA. TOP NOT RECD.
 - 7. CIRCLED NUMBERS 1 THRU 46 ARE WIRE NUMBERS. SEE TABLE.
 - 8. SEE PAGE 2 FOR MODELS BB, BC & RB. SEE PAGE 3 FOR MODELS BL, EM, PL & PM.

WIRE NO	COLOR	WIRE NO	COLOR
1	RED	24	WHITE-YELLOW
2	WHITE	25	BROWN
3	WHITE	26	WHITE-BROWN
4	RED	27	WHITE-ORANGE
5	ORANGE	28	WHITE-YELLOW
6	GRAY-BLUE	29	WHITE-VIOLET
7	GRAY-WHITE	30	BROWN
8	YELLOW	31	BROWN
9	BLUE	32	ORANGE
10	GRN	33	ORANGE
11	GRN	34	YELLOW
12	GRAY-VIOLET	35	YELLOW
13	GREEN	36	VIOLET
14	GREEN	37	VIOLET
15	RED	38	RED
16	WHITE	39	WHITE-BLUE
17	GRAY-RED	40	WHITE-GREEN
18	GRAY-RED	41	RED
19	GRAY-YELLOW	42	WHITE
20	WHITE	43	RED
21	BLACK	44	WHITE
22	YELLOW	45	WHITE
23	WHITE-BLACK	46	GRAY-YELLOW
431-BUS	BLACK		
52	BLUE	47	GRAY

LEGEND	
CONN. ACTIONS	MODEL
PWR SUP TO READER	PC04 B PC04 BA
PWR SUP TO PUNCH	PC04 C PC04 CA PC04 D PC04 DA
PWR SUP TO SCR DRIVER	PC04 E PC04 EA
PWR SUP TO PUNCH	PC04 F PC04 FA

QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	PC04		
1	PC04 B		
1	PC04 C		
1	PC04 D		
1	PC04 E		
1	PC04 F		
1	PC04 BA		
1	PC04 CA		
1	PC04 DA		
1	PC04 EA		
1	PC04 FA		

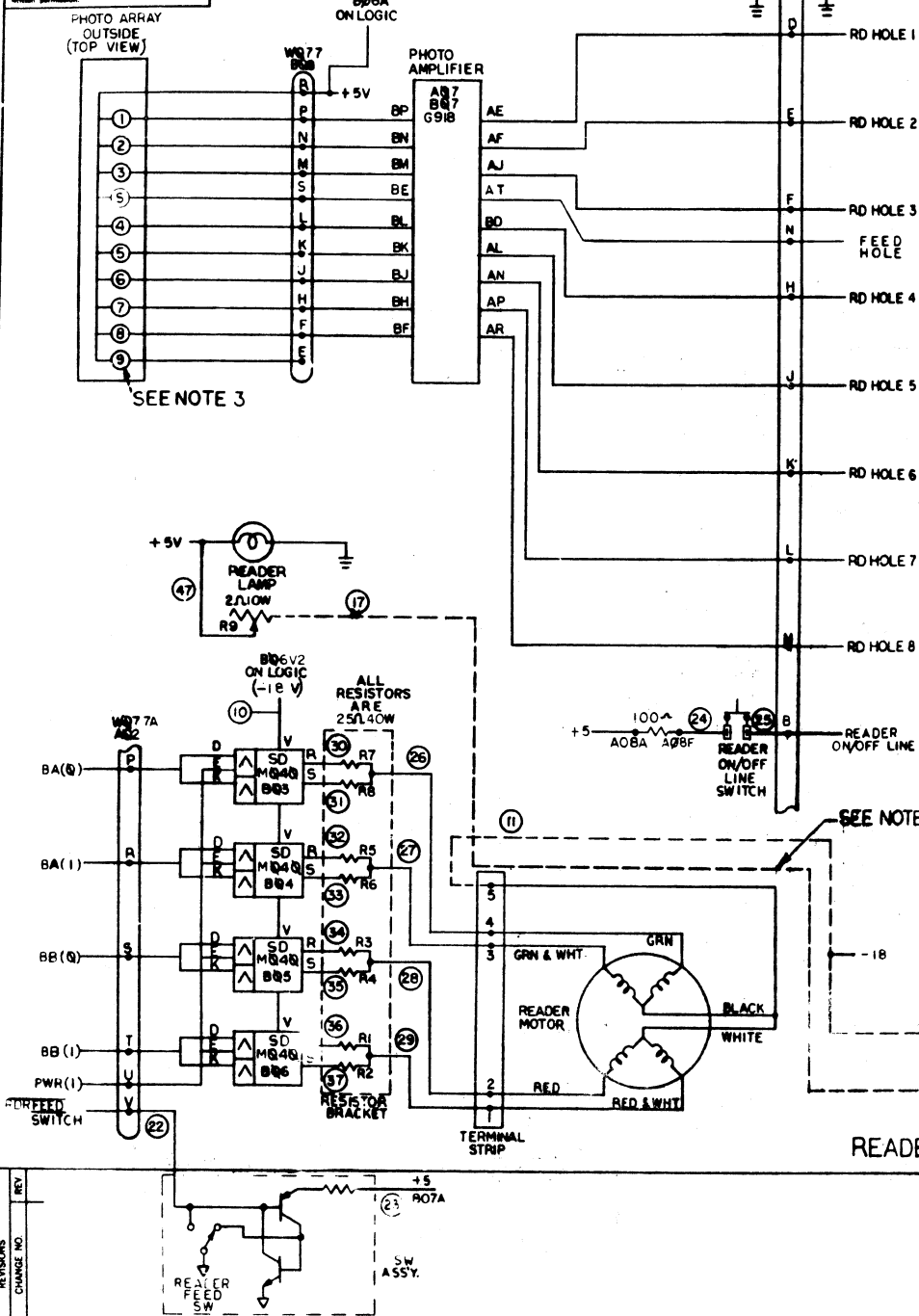
REV.	CHANGE	BY	DATE
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NOTE 9: SEE NOTE 4 ON AD-7006268-0-0
REFERENCE: 7006268-0-0 LOGIC BLOCK

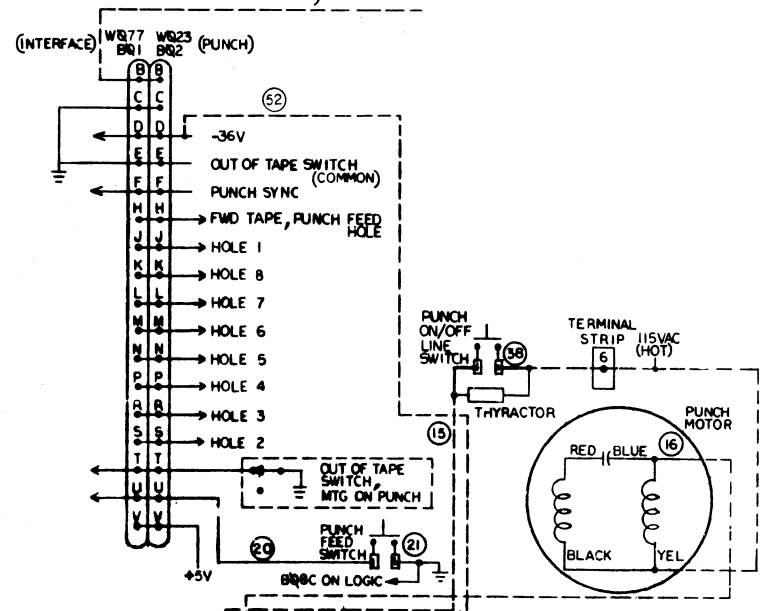
PC04
UNLESS OTHERWISE SPECIFIED
DECIMALS FRACTIONS ANGLES
1/16 1/8 1/4 1/2 3/4 1 1 1/2 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
MATERIAL
FINISH

QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	PC04		
1	PC04 B		
1	PC04 C		
1	PC04 D		
1	PC04 E		
1	PC04 F		
1	PC04 BA		
1	PC04 CA		
1	PC04 DA		
1	PC04 EA		
1	PC04 FA		

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PUNCH



NOTES:

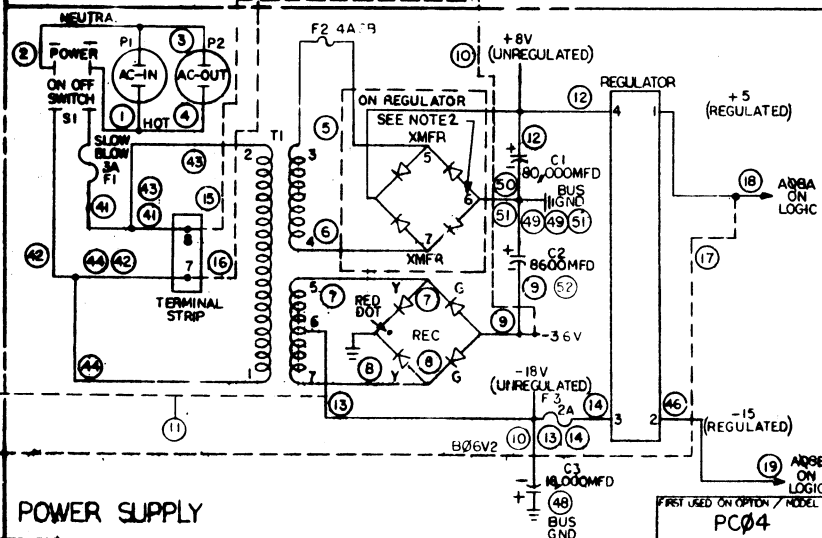
1. DOTTED LINES INDICATE POSSIBLE CONNECTIONS BETWEEN POWER SUPPLY, READER AND PUNCH.
2. THE UNCIRCLED NUMBERS 1 THRU 7 REFER TO CONNECTIONS ON REGULATOR BOARD.
3. THIS PHOTO TRANSISTOR IS NOT USED.
4. CIRCLED NUMBERS 1 THRU 46 ARE WIRE NUMBERS. SEE TABLE.

WIRE TABLE

WIRE NO	COLOR	WIRE NO	COLOR
1	RED	24	WHITE-YELLOW
2	WHITE	25	BROWN
3	WHITE	26	WHITE-BROWN
4	RED	27	WHITE-ORANGE
5	ORANGE	28	WHITE-YELLOW
6	GRAY-BLUE	29	WHITE-VIOLET
7	GRAY-WHITE	30	BROWN
8	YELLOW	31	BROWN
9	BL UE	32	ORANGE
10	GRN	33	ORANGE
11	GRN	34	YELLOW
12	GRAY-VIOLET	35	YELLOW
13	GREEN	36	VIOLET
14	GREEN	37	VIOLET
15	RED	38	RED
16	WHITE		
17	GRAY-RED		
18	GRAY-RED	41	RED
19	GRAY-YELLOW	42	WHITE
20	WHITE	43	RED
21	BLACK	44	WHITE
22	YELLOW		
23	WHITE-BLACK	46	GRAY-YELLOW
48T-PLU 51	BLACK	47	GRAY-RED

LEGEND

CONNECTIONS		MODEL		
		PCB4 BB PC4 BC	PCB4 P PC4 PA	PCB4 R PC4 RA
PWR SUP TO READER	5V TO READER LAMP POT 18 TO T.S.			SAME AS PCB4-B PC4-BC
PWR SUP TO PUNCH	30 TO PUNCH CABLE BOND 115V (HOT) TO PUNCH SW 115 (NEUTRAL) TO PUNCH MOTOR		SAME AS PCB4 BB PC4 BC	

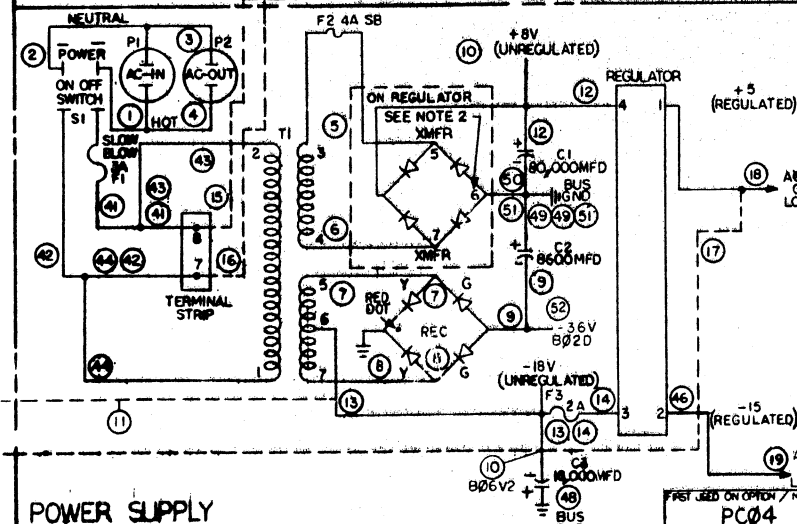
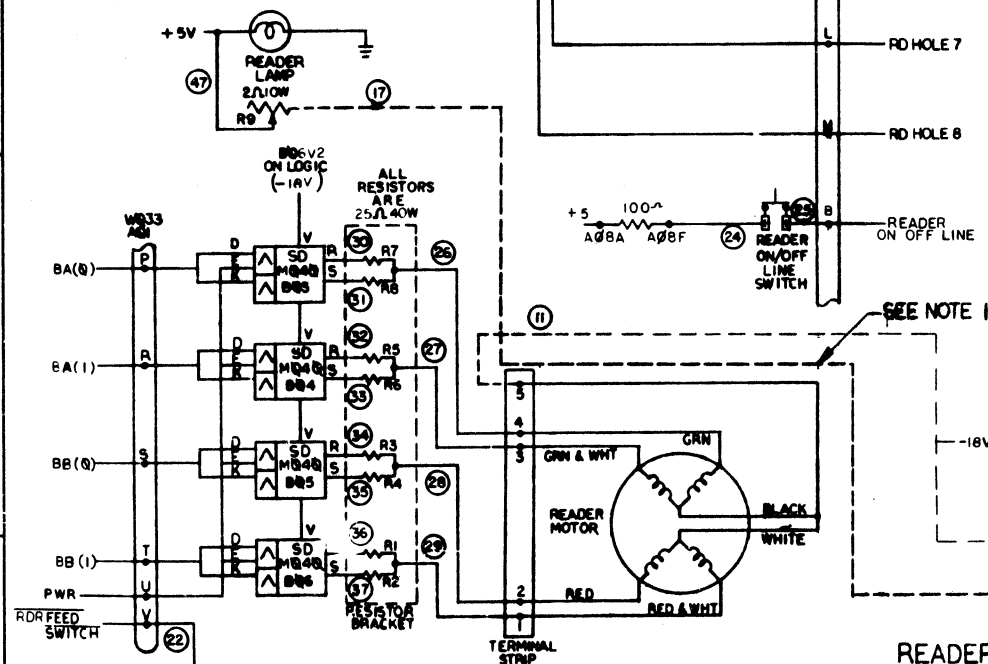
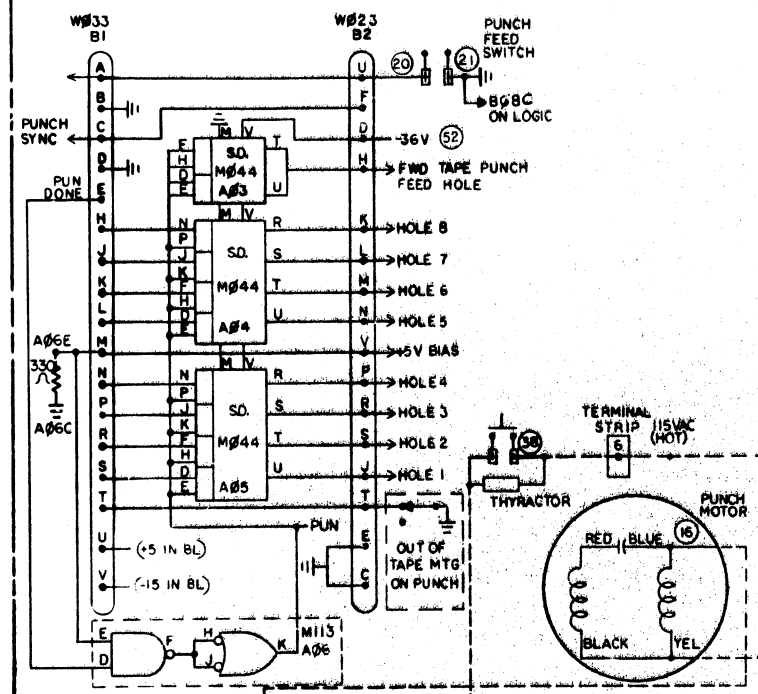
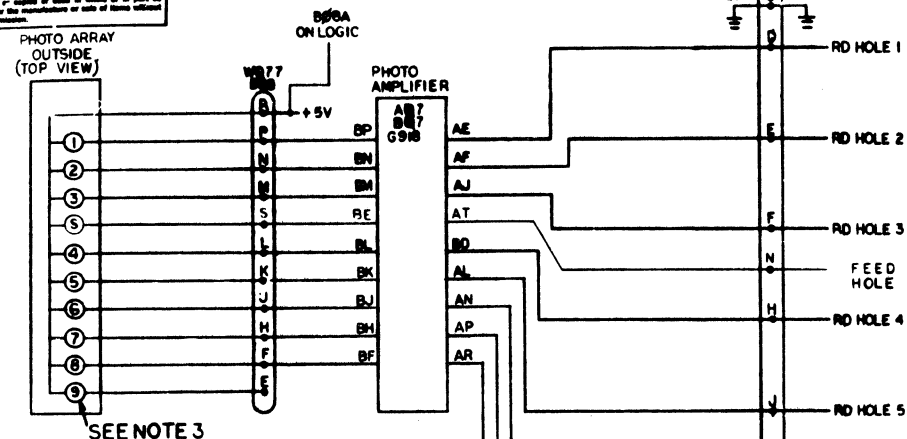


READER | POWER SUPPLY

REFERENCE 7006268-0
LOGIC BLOCK

FIRST USED ON OPTION MODEL PC04		QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES		PARTS LIST			
TOLERANCES DECIMALS FRACTIONS ANGLES ± .000 ± .001 ± 1/16 ± 1/2		TITLE		EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
FINISH SURFACE QUALITY REMOVE BURRS AND BREAK SHARP EDGES		POWER AND CONTROL SCHEMATIC DIAGRAM (81)			
MATERIAL / /		NEXT HIGHER ASSY. A-ML-PC04		SKETCH CODE DIBS	NUMBER PC04-0-2
FINISH / /		SCALE NONE		REV. J	
		SHEET 2 OF 3			

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NOTES:

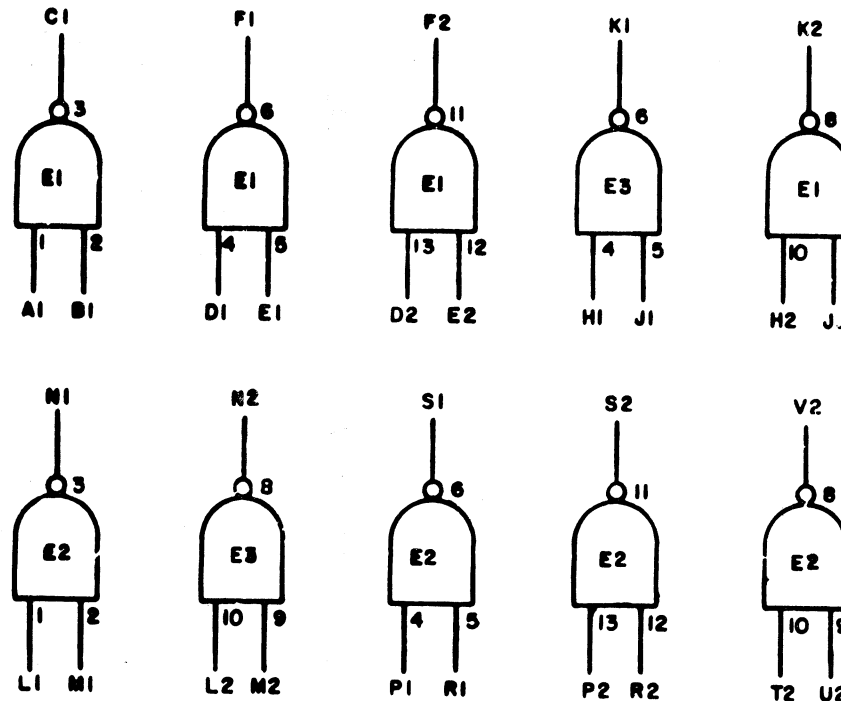
- NOTES:
1. DOTTED LINES INDICATE POSSIBLE CONNECTIONS BETWEEN POWER SUPPLY, READER AND PUNCH.
 2. THE UNCIRCLED NUMBERS 1 THRU 7 REFER TO CONNECTIONS ON REGULATOR BOARD.
 3. THIS PHOTO TRANSISTOR IS NOT USED.
 4. CIRCLED NUMBERS 1 THRU 46 ARE WIRE NUMBERS. SEE TABLE.

WIRE NO	COLOR	WIRE NO	COLOR
1	RED	24	WHITE-YELLOW
2	WHITE	25	BROWN
3	WHITE	26	WHITE-BROWN
4	RED	27	WHITE-ORANGE
5	ORANGE	28	WHITE-YELLOW
6	GRAY-BLUE	29	WHITE-VIOLET
7	GRAY-WHITE	30	BROWN
8	YELLOW	31	BROWN
9	BLUE	32	ORANGE
10	GRN	33	ORANGE
11	GRN	34	YELLOW
12	GRAY-VIOLET	35	YELLOW
13	GREEN	36	VIOLET
14	GREEN	37	VIOLET
15	RED	38	RED
16	WHITE	39	
17	GRAY-RED	40	
18	GRAY-RED	41	RED
19	GRAY-YELLOW	42	WHITE
20	WHITE	43	RED
21	BLACK	44	WHITE
22	YELLOW		
23	WHITE-BLACK	46	GRAY-YELLOW
48THRU 51	BLACK	47	GRAY-RED

THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE
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REV. 0
NUMBER 1-0-1111
CS 8
SIZE 3000

+5V ——— A2
NOT USED -15V ——— B2
GND ——— C2, T1



NOTES:
PIN 7 ON EACH IC - GND
PIN 14 ON EACH IC - +5V

E1 THRU E3	INTEGRATED CKT. DEC7400N	1905575
R1 AND R3	RES. 750 1/4W 5% CC	1301401
R2 AND R4	RES. 330 1/4W 10% CC	1300293
C1 AND C2	CAP. .01MFD 100V 20% DISC	1001610
PARTS LIST		A-PL-M13-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

REV. 0	DATE 1-11-67
DES. NO. 100	DATE 1-11-67
CHK'D. 100	DATE 1-11-67
ENG. 100	DATE 1-11-67
PROD. 100	DATE 1-11-67

DATE	DATE
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1-11-67	1-11-67
1-11-67	1-11-67

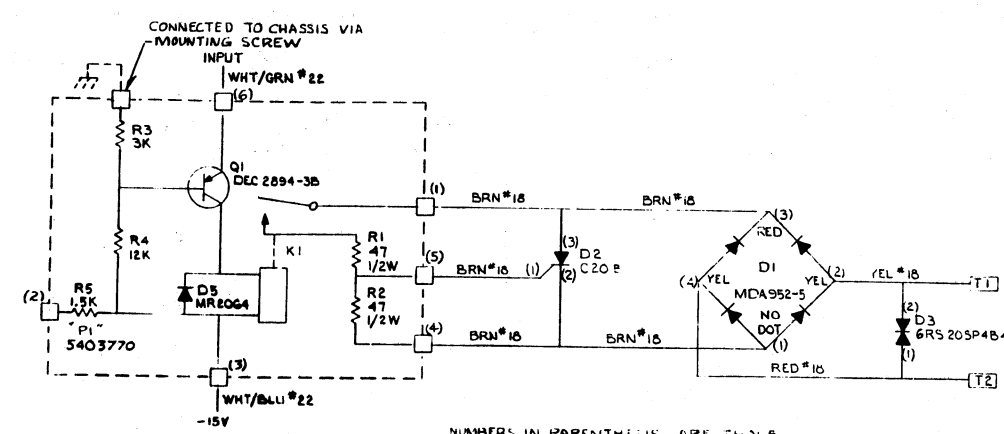
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE 10-2 INPUT NAND GATES M13.			
SIZE	CODE	NUMBER	REV.
B	CS	M13-0-1	C
PRINTED CIRCUIT REV			D

PINK

DIS. 100



NUMBERS IN PARENTHESES ARE THOSE INDICATED IN CAD 5408385-0-1 AND NOT MARKED ON COMPONENTS

UNLESS OTHERWISE INDICATED:
RESISTORS = 1/4W, 5%
"T" INDICATES MALE AMP FASTON TAB
□ ETCH LAND FOR SOLDERING WIRES
KI IS WHEELLOCK 266-2A

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV				
DRN DATE CHKD DATE ENG DATE PROJ. ENG. DATE PROD. DATE				
NEXT HIGHER ASSY				
DEC NO. EIA NO. DEC NO. EIA NO.				
SEMICONDUCTOR CONVERSION CHART				
SCALE SHEET OF DIST.				

digital EQUIPMENT CORPORATION

WATFORD MASSACHUSETTS

TITLE

SCR DRIVER ASSY

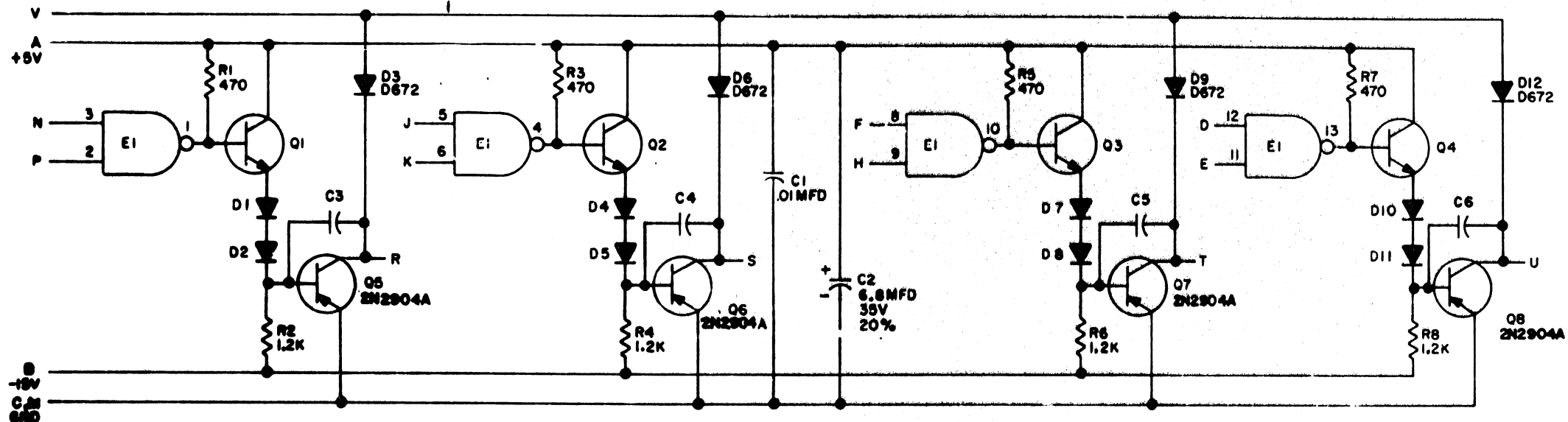
SIZE CODE

NUMBER

REV.

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REV C
NUMBER M044-0-1
SIZE B
CODE CS
3215

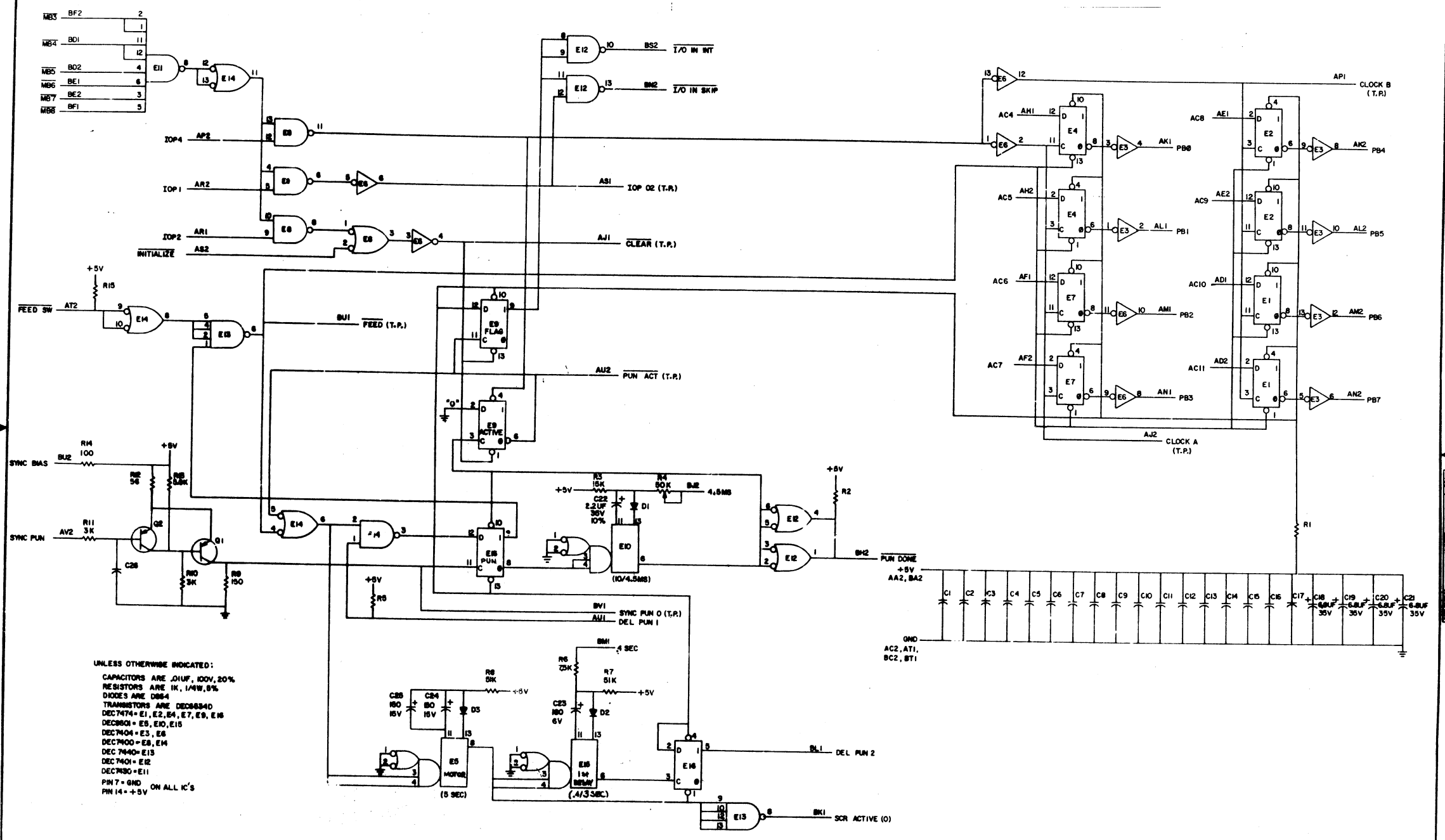


UNLESS OTHERWISE INDICATED.
RESISTORS ARE 1/4W, 5%
DIODES ARE 9664
E1 IS DEC7401N
TRANSISTORS ARE DEC3009B
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V
CAPACITORS ARE 100pF, 100V, 5%

REV C		DATE 4/23/69		TRANSISTOR & DIODE CONVERSION CHART		TITLE 4-100MA SOLENOID DRIVER M044	
DESIGN	REV	DATE	DATE	DEC	EIA	DEC	EIA
1.0	1.0	4/23/69	4/23/69	DEC3009B	2N2904A	DEC3009B	2N2904A
PROD. DATE				EQUIPMENT CORPORATION		SIZE B CODE CS NUMBER M044-0-1 REV C	
PRINTED CIRCUIT REV				MAYNARD, MASSACHUSETTS		5	

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1-0-Q1/W S3 0 2002 1/15

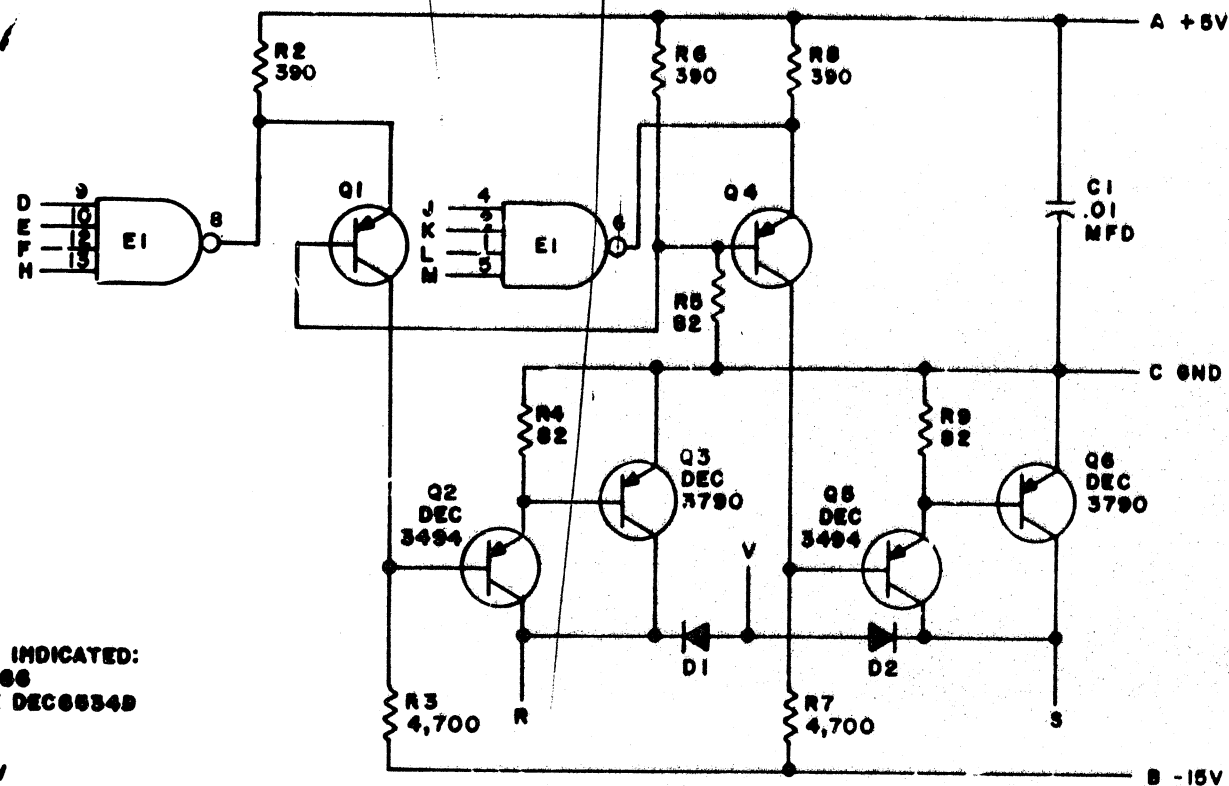


UNLESS OTHERWISE INDICATED:
 CAPACITORS ARE .01UF, 100V, 20%
 RESISTORS ARE 1K, 1/4W, 5%
 DIODES ARE 1N914
 TRANSISTORS ARE 2N3638
 DEC7474 = E1, E2, E4, E7, E9, E16
 DEC7404 = E3, E6
 DEC7400 = E8, E14
 DEC7440 = E13
 DEC7401 = E12
 DEC7480 = E11
 PIN 7 = GND ON ALL IC'S
 PIN 14 = +5V

TRANSISTOR & DIODE CONVERSION CHART				PUNCH CONTROL M710			
DEC	1	2	3	DEC	1	2	3
2N3638	7474	7404	7400	7440	7401	7480	7400
1N914	1N914	1N914	1N914	1N914	1N914	1N914	1N914

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REV E
NUMBER M040-0-1
SIZE B
CODE CS
3216



UNLESS OTHERWISE INDICATED:
DIODES ARE MR2066
TRANSISTORS ARE DEC3790
E1 IS DEC7480N
PIN 7 ON IC = GND
PIN 14 ON IC = +5V
RESISTORS ARE 1/4W, 10%

PARTS LIST A-PL-M040-0-0

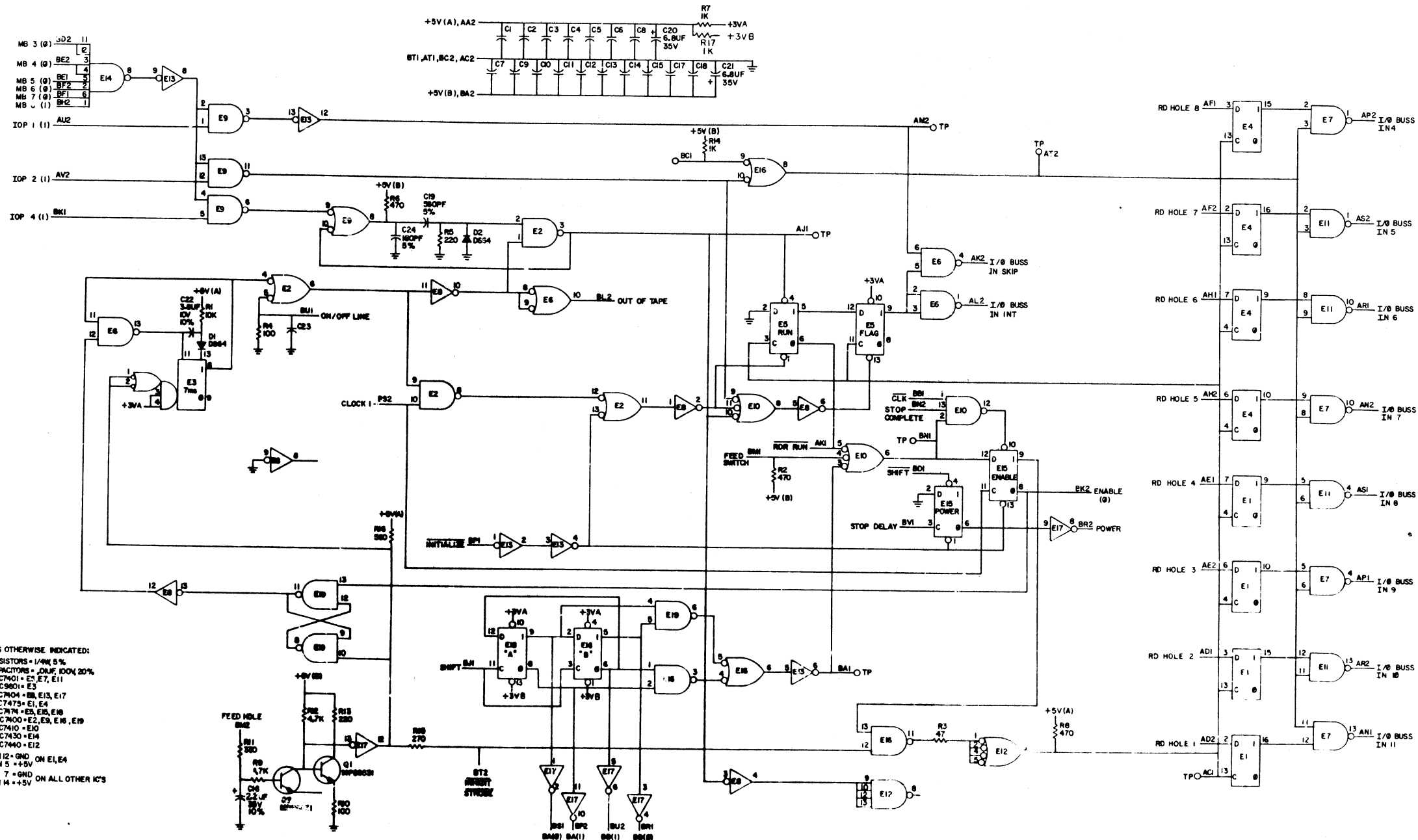
REVISIONS	CHK	ENG	NO	REV
1			00001	E
2			00002	

DRN	DATE
RD. Miller	2-11-67
CHK'D	DATE
	7/22/67
DATE	DATE
7/19/67	
PROD	DATE
4	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3494	3494		
DEC3790	2N3790		
DEC6534	MP6534		
D462	1N462		
MR2066	1N4003		

EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

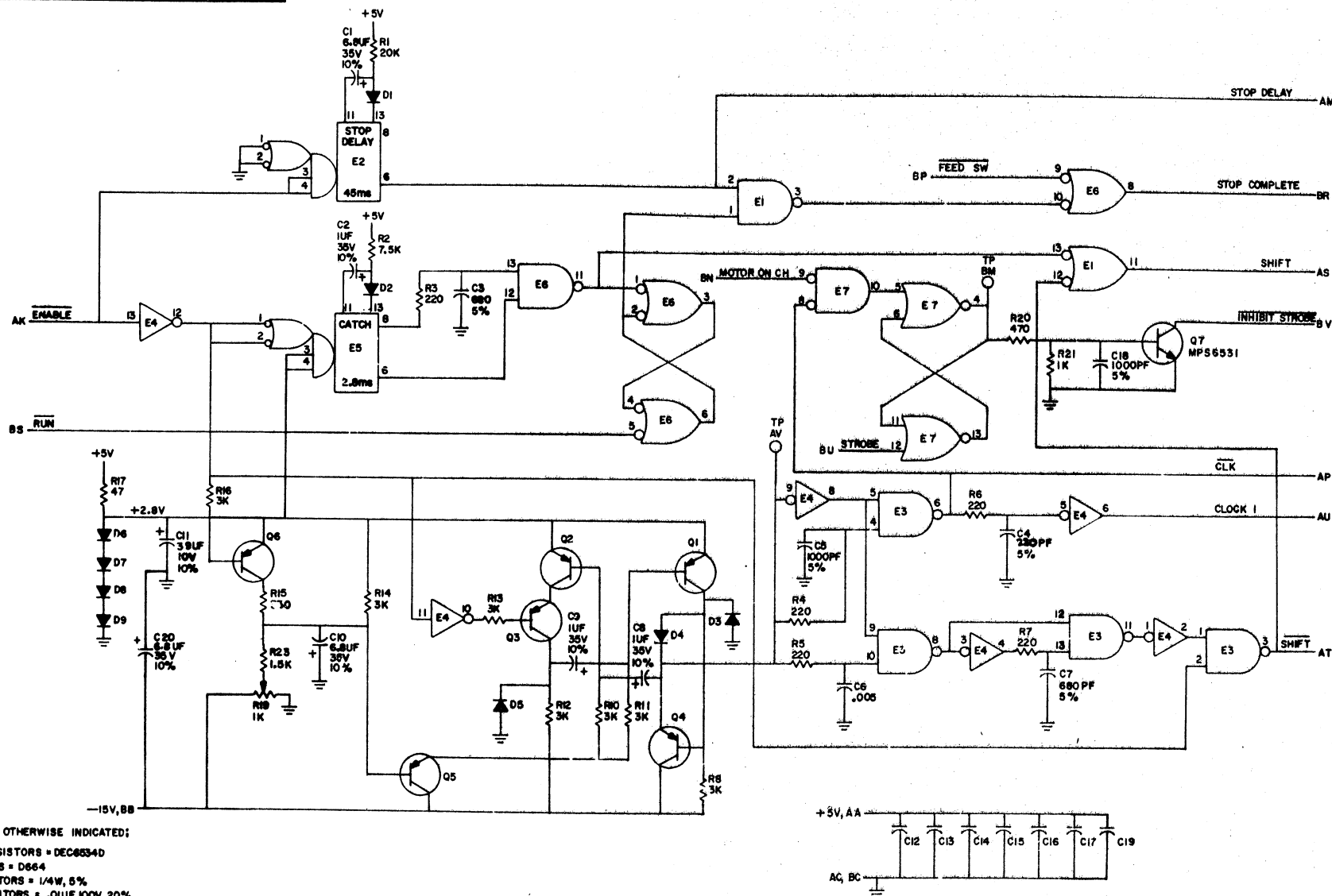
TITLE			
SOLENOID DRIVER M040			
SIZE	CODE	NUMBER	REV
B	CS	M040-0-1	E
PRINTED CIRCUIT REV.			
E			



UNLESS OTHERWISE INDICATED:

RESISTORS = 1/4W 5%
CAPACITORS = .01UF, 100N, 20%
DEC7401 = E5, E7, E11
DEC7402 = E3
DEC7404 = E5, E13, E17
DEC7475 = E1, E4
DEC7476 = E5, E13, E18
DEC7400 = E2, E3, E16, E19
DEC7410 = E10
DEC7430 = E14
DEC7440 = E12
PIN 12 = GND, ON E1, E4
PIN 5 = +5V
PIN 7 = GND ON ALL OTHER IC'S
PIN 14 = +5V

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UNLESS OTHERWISE INDICATED:
 TRANSISTORS - DEC634D
 DIODES - D644
 RESISTORS - 1/4W, 5%
 CAPACITORS - .01UF, 100V, 20%
 E1, E3, E6 - DEC7400
 E4 - DEC7404
 E2, E5 - DEC9801
 PIN 7 = GND ON ALL IC'S
 PIN 14 = +5V ON ALL IC'S
 E7 - DEC7402

REV	DATE	BY	CHKD	REV	DATE	BY	CHKD
1	10/16/67	AY	00002	1	10/16/67	AY	00002
2	11/2/67	AY	00003	2	11/2/67	AY	00003
3	11/2/67	AY	00004	3	11/2/67	AY	00004
4	11/2/67	AY	00005	4	11/2/67	AY	00005
5	11/2/67	AY	00006	5	11/2/67	AY	00006
6	11/2/67	AY	00007	6	11/2/67	AY	00007
7	11/2/67	AY	00008	7	11/2/67	AY	00008

DEC FORM NO. 102

DRN	DATE	DATE	DATE	DATE	DATE	DATE	DATE
M. MALLER	10/16/67	10/16/67	10/16/67	10/16/67	10/16/67	10/16/67	10/16/67
R. SILVERMAN	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67
E. SILVERMAN	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67
R. SILVERMAN	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67
R. SILVERMAN	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67
R. SILVERMAN	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67
R. SILVERMAN	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67

DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
10/16/67	10/16/67	10/16/67	10/16/67	10/16/67	10/16/67	10/16/67	10/16/67
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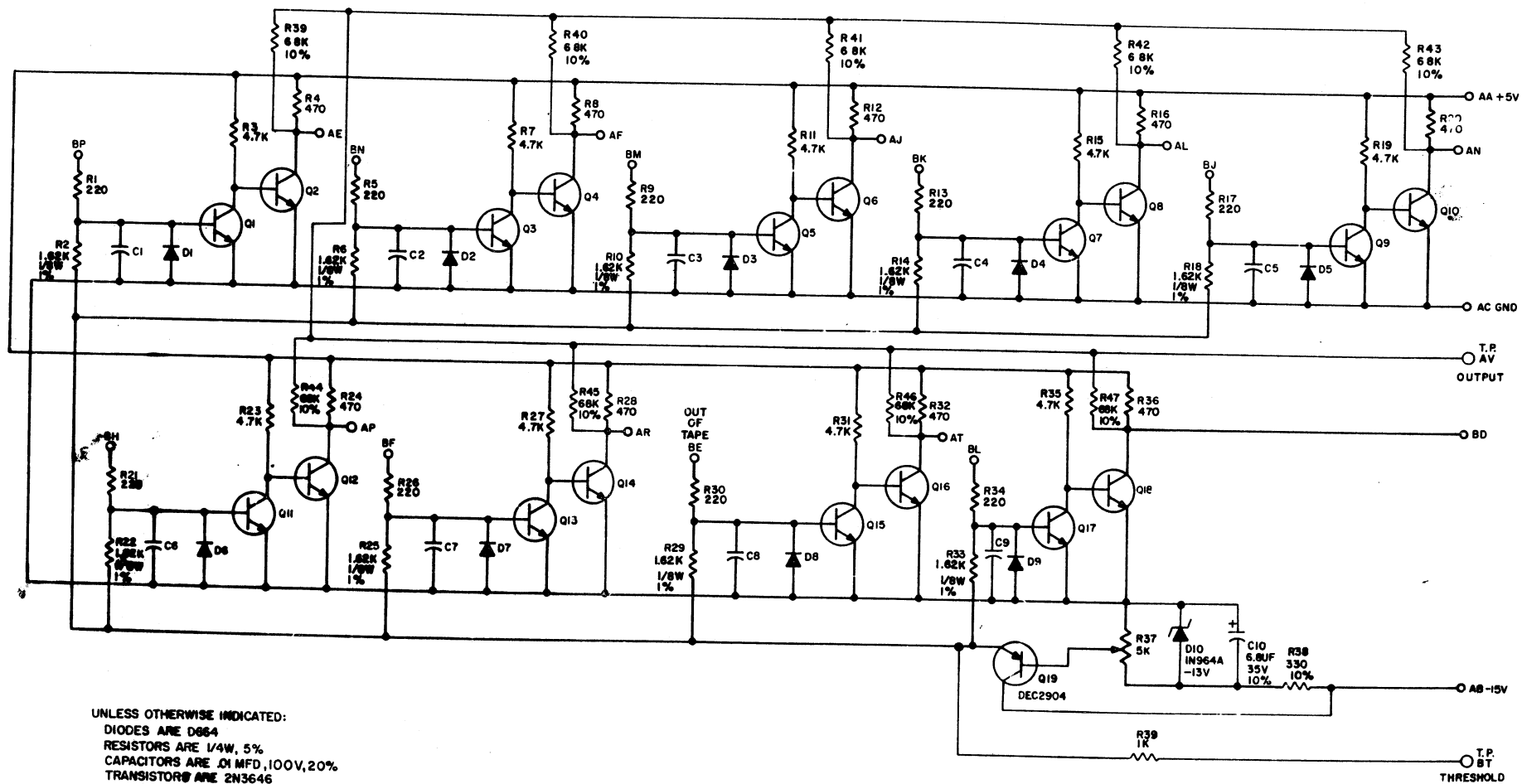
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DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
10/16/67	10/16/67	10/16/67	10/16/67	10/16/67	10/16/67	10/16/67	10/16/67
11/2/67	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67
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11/2/67	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67	11/2/67

REV. L
 NUMBER M715-0-1
 SIZE CODE C CS

DIST. 324,434,435
 4 PINK

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UNLESS OTHERWISE INDICATED:
 DIODES ARE D664
 RESISTORS ARE 1/4W, 5%
 CAPACITORS ARE .01 MFD, 100V, 20%
 TRANSISTORS ARE 2N3646
 ○ INDICATES TEST POINT

REV	CHG	NO.	REV.
1	00001	00002	00003

DEC FORM NO. DRC 102

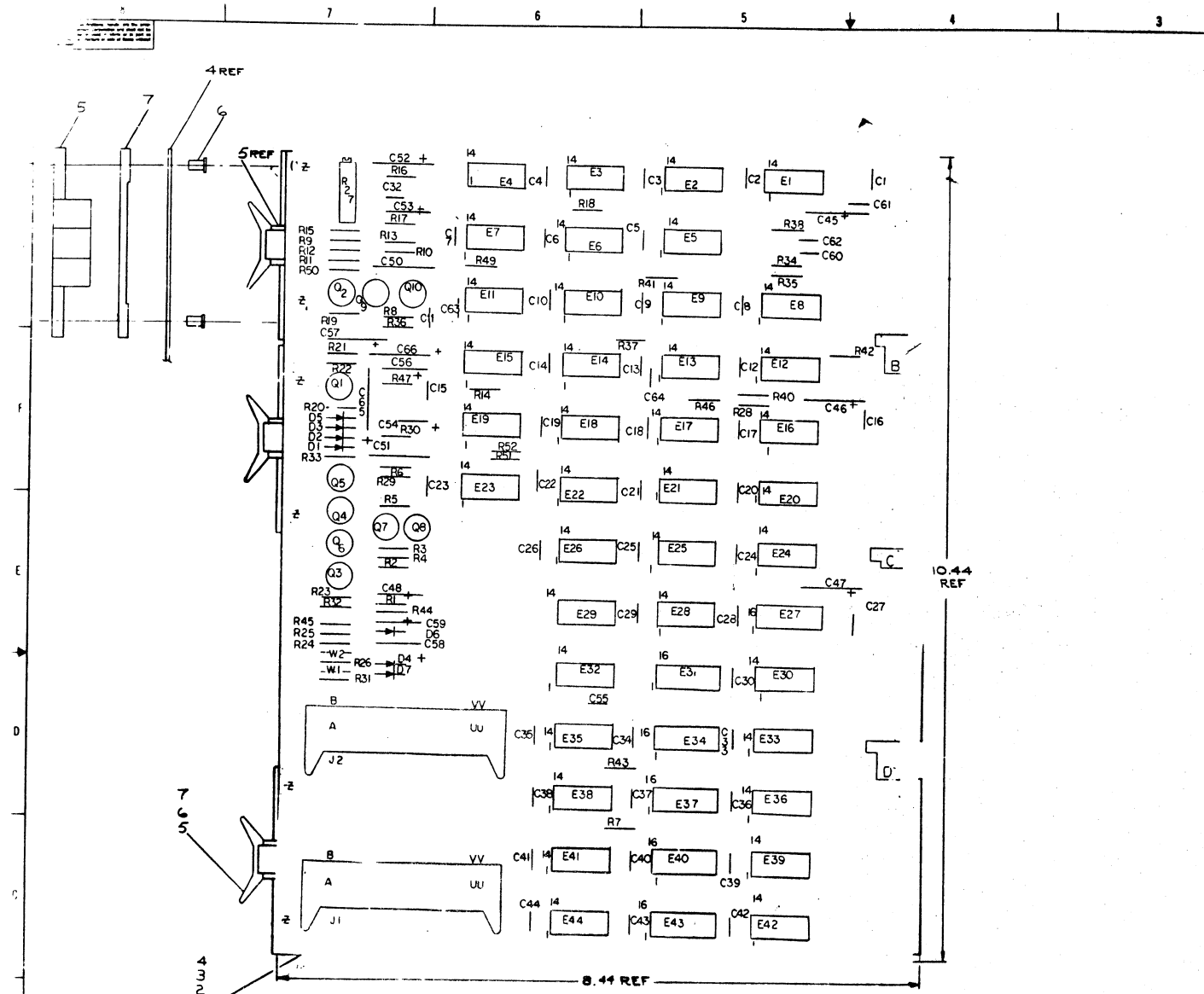
DRN	DATE
REVISED	4/1/69
CHK'D	6/1/69
ENG	6/1/69
PROD.	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
2N3646	2N3009	IN964A -13V	SAME
D664	IN3308	DEC2904	2N1132

DIGITAL EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE PHOTO TRANSISTOR AMPLIFIER G918			
SIZE	CODE	NUMBER	REV
C	CS	G918-0-1	B
PRINTED CIRCUIT REV.			
D			

SIZE CODE NUMBER REV.
 C CS G918-0-1 B

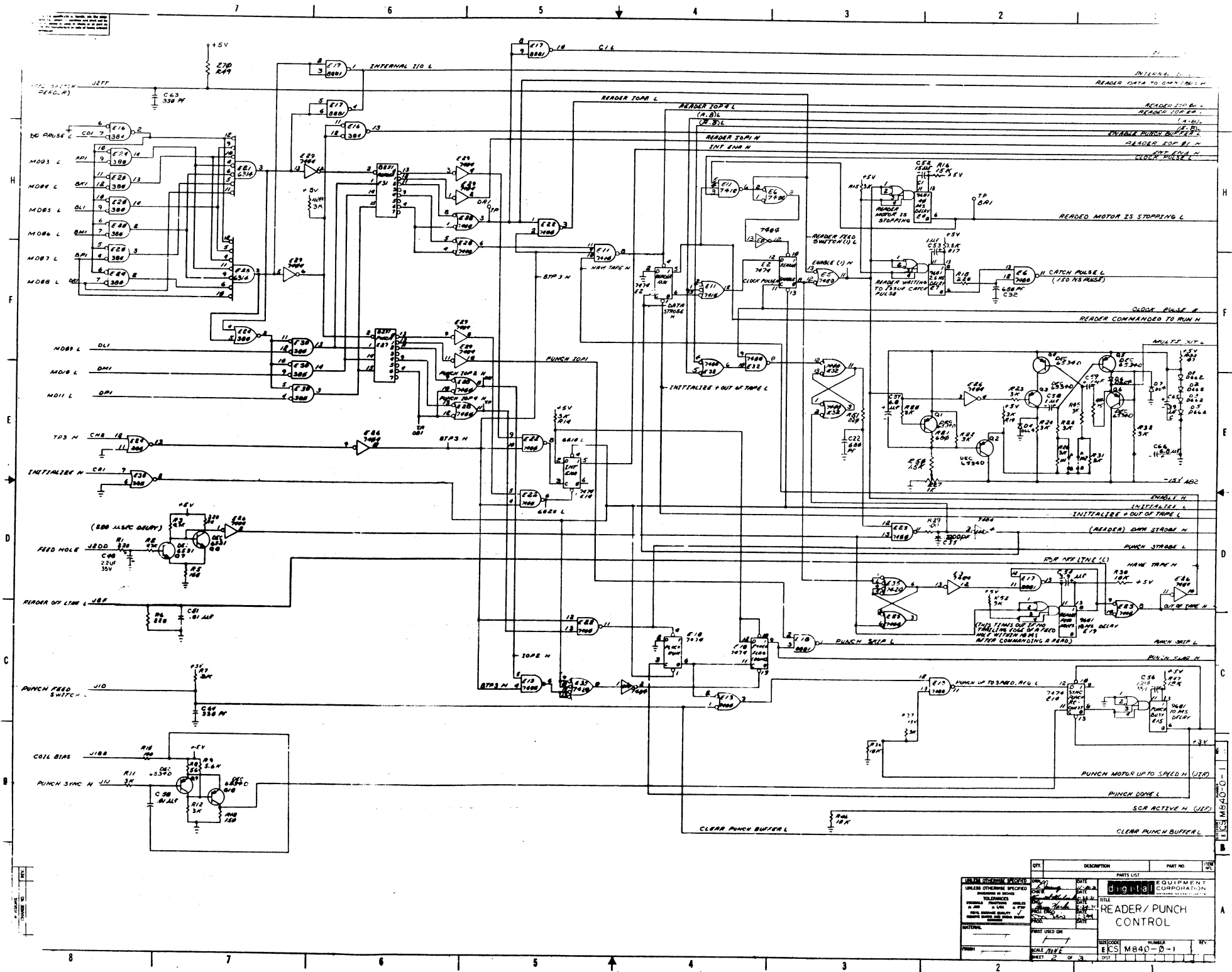


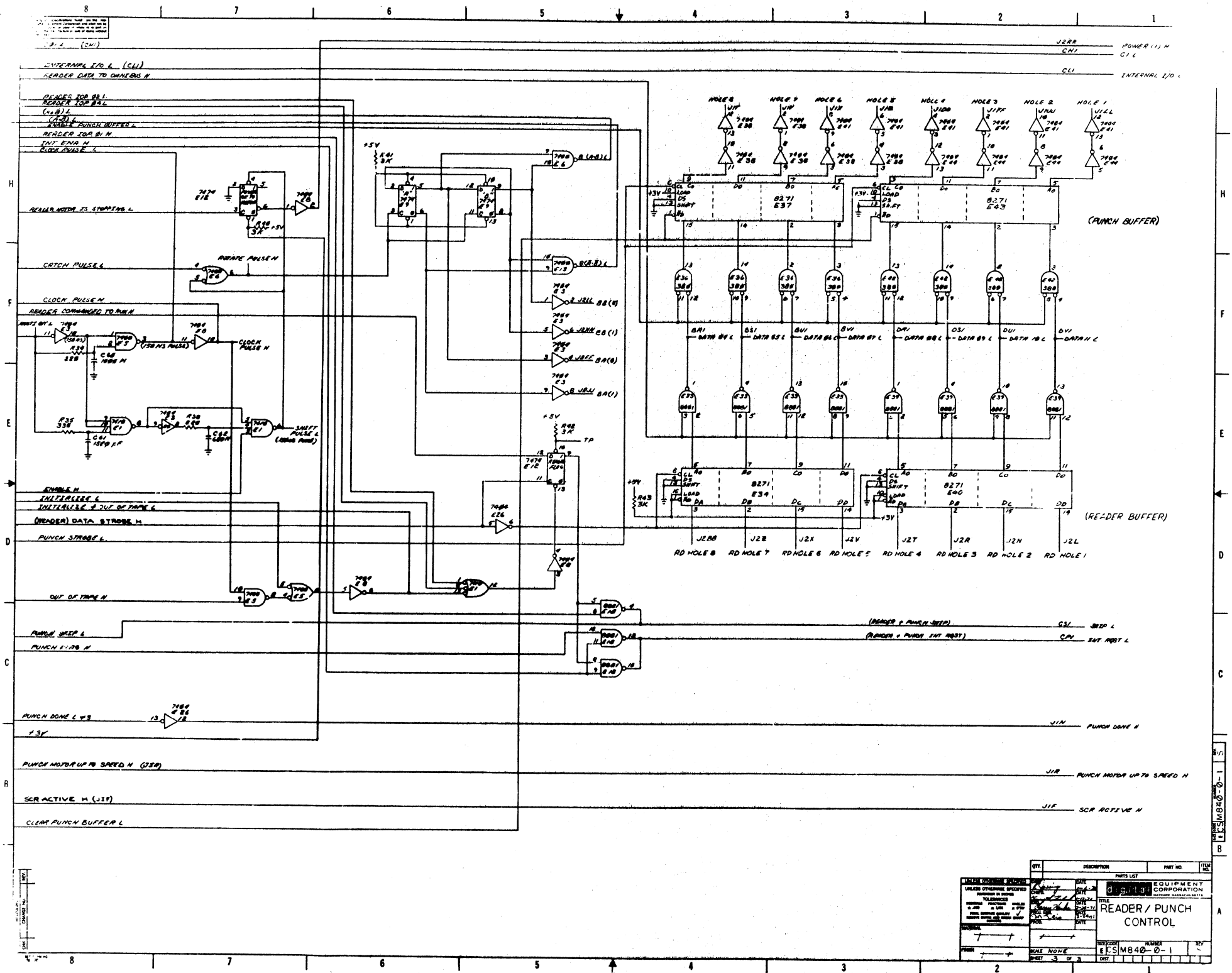
ITEM NO	QTY	UNIT	DESCRIPTION	DATE	BY
1	1	PCB	PCB 10.44 REF	10/1/71	JM
2	1	PCB	PCB 8.44 REF	10/1/71	JM
3	1	PCB	PCB 7.44 REF	10/1/71	JM
4	1	PCB	PCB 6.44 REF	10/1/71	JM
5	1	PCB	PCB 5.44 REF	10/1/71	JM
6	1	PCB	PCB 4.44 REF	10/1/71	JM
7	1	PCB	PCB 3.44 REF	10/1/71	JM
8	1	PCB	PCB 2.44 REF	10/1/71	JM
9	1	PCB	PCB 1.44 REF	10/1/71	JM
10	1	PCB	PCB 0.44 REF	10/1/71	JM

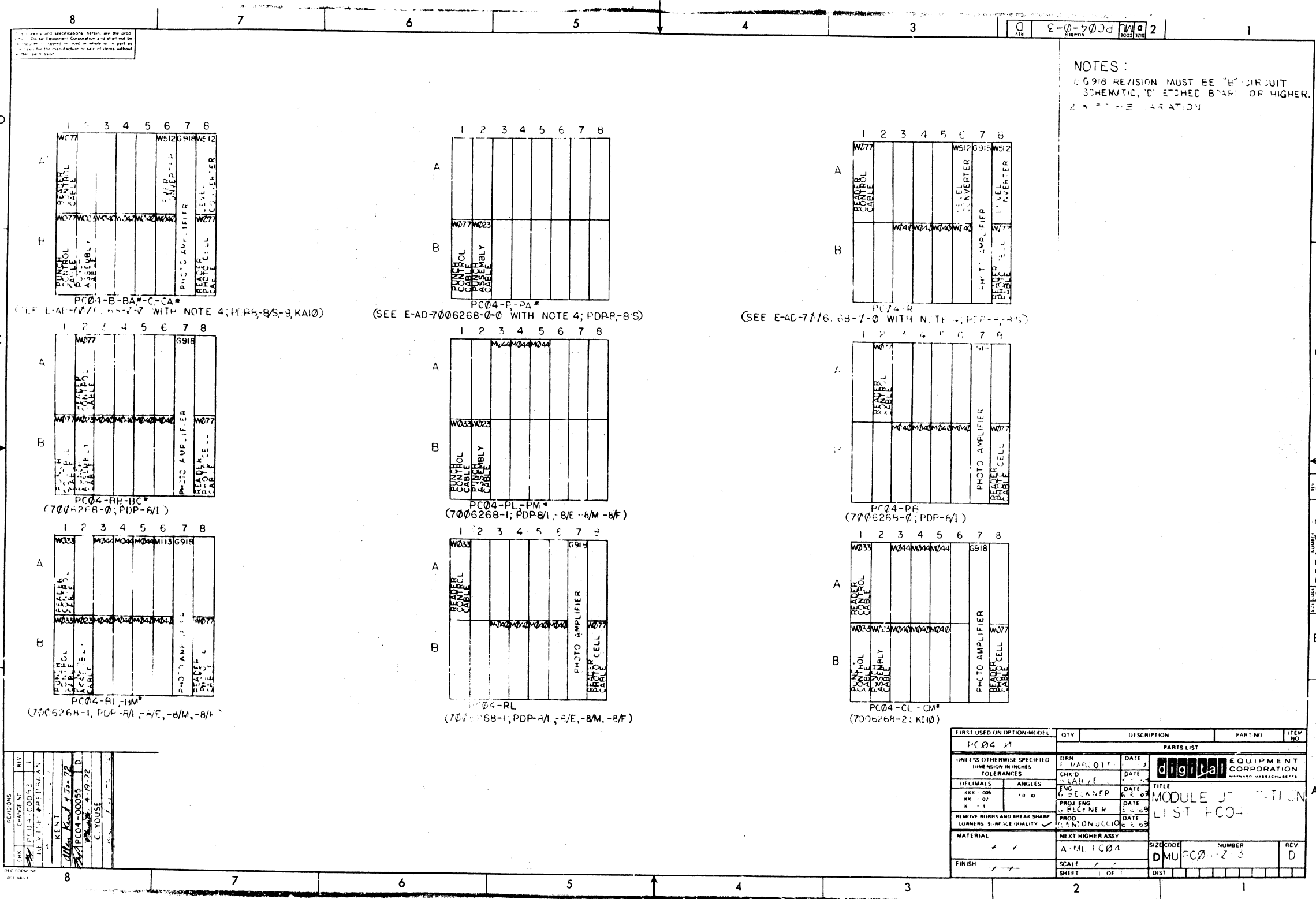


ITEM	REF DESIGNATION	DESCRIPTION	QTY	UNIT	DATE	BY
1	R1	RES 10K 1/4W 5%	1	PCB	10/1/71	JM
2	R2	RES 10K 1/4W 5%	1	PCB	10/1/71	JM
3	R3	RES 10K 1/4W 5%	1	PCB	10/1/71	JM
4	R4	RES 10K 1/4W 5%	1	PCB	10/1/71	JM
5	R5	RES 10K 1/4W 5%	1	PCB	10/1/71	JM
6	R6	RES 10K 1/4W 5%	1	PCB	10/1/71	JM
7	R7	RES 10K 1/4W 5%	1	PCB	10/1/71	JM
8	R8	RES 10K 1/4W 5%	1	PCB	10/1/71	JM
9	R9	RES 10K 1/4W 5%	1	PCB	10/1/71	JM
10	R10	RES 10K 1/4W 5%	1	PCB	10/1/71	JM

ITEM	REF DESIGNATION	DESCRIPTION	QTY	UNIT	DATE	BY
1	R1	RES 10K 1/4W 5%	1	PCB	10/1/71	JM
2	R2	RES 10K 1/4W 5%	1	PCB	10/1/71	JM
3	R3	RES 10K 1/4W 5%	1	PCB	10/1/71	JM
4	R4	RES 10K 1/4W 5%	1	PCB	10/1/71	JM
5	R5	RES 10K 1/4W 5%	1	PCB	10/1/71	JM
6	R6	RES 10K 1/4W 5%	1	PCB	10/1/71	JM
7	R7	RES 10K 1/4W 5%	1	PCB	10/1/71	JM
8	R8	RES 10K 1/4W 5%	1	PCB	10/1/71	JM
9	R9	RES 10K 1/4W 5%	1	PCB	10/1/71	JM
10	R10	RES 10K 1/4W 5%	1	PCB	10/1/71	JM







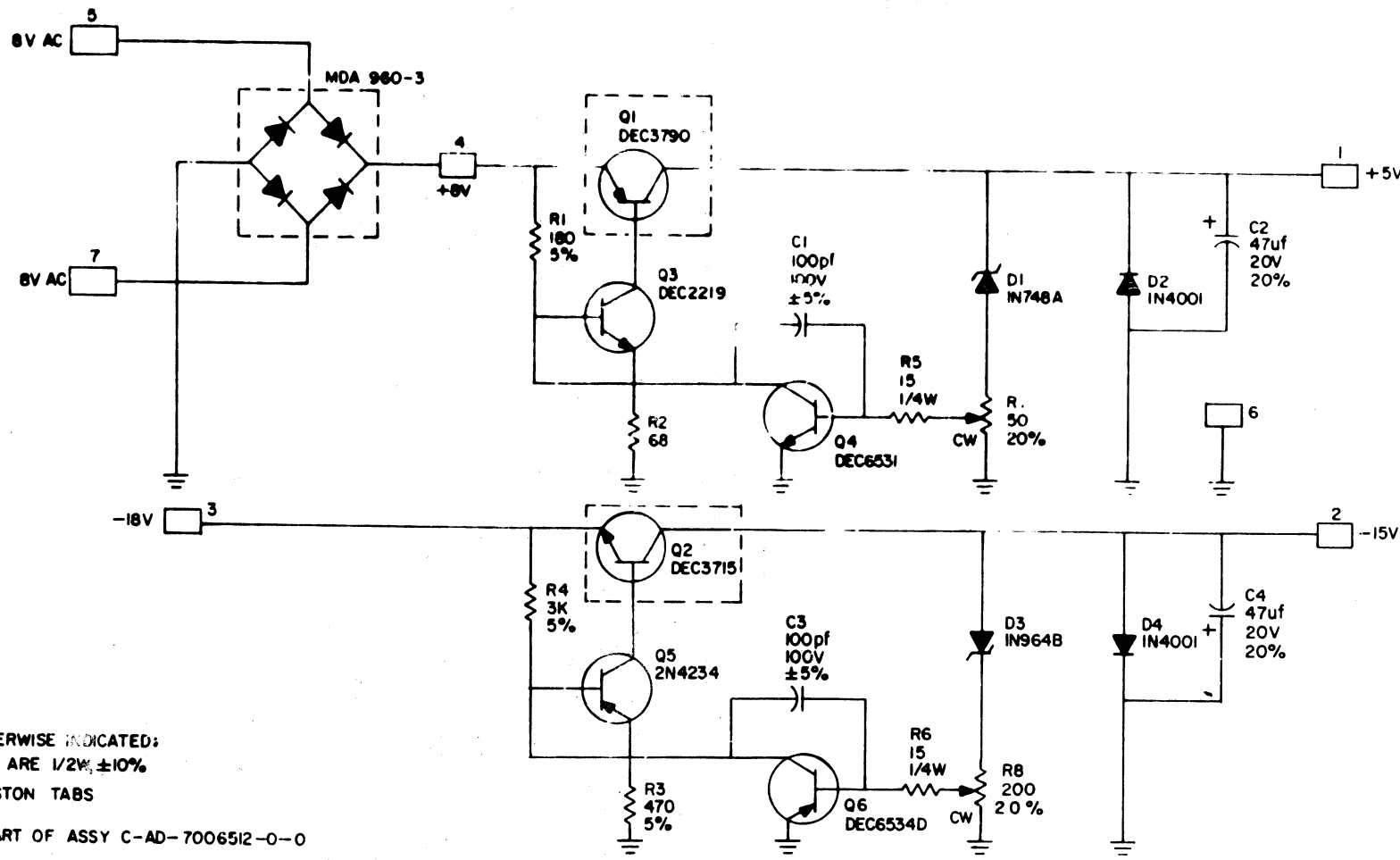
NOTES:
1. G918 REVISION MUST BE THE CIRCUIT SCHEMATIC, ETCHED BOARD OF HIGHER.
2. ...

REV	DATE	BY	CHK	APP
1	4-17-72	...	...	...
2	4-19-72	...	...	...
3	4-19-72	...	...	...

FIRST USED ON OPTION/MODEL		QTY	DESCRIPTION	PART NO	ITEM NO
PC04-1					
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES		DRN	DATE	PARTS LIST	
OF DIMS		CHK'D	DATE	digital EQUIPMENT CORPORATION	
ANGLES		ENG	DATE	TITLE	
REMOVE BURRS AND BREAK SHARP CORNERS TO SPECIFIED QUALITY		PROJ ENG	DATE	MODULE J-1	
MATERIAL		PROD	DATE	LIST PC04	
FINISH		NEXT HIGHER ASSY		SIZE CODE	
		A-M L-PC04		NUMBER	
		SCALE		REV	
		SHEET 1 OF 1		D	

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REV A 5408918-0-1 CS B



UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/2W ±10%

□ = FASTON TABS

□ = PART OF ASSY C-AD-7006512-0-0

REVISIONS
CHK CHG NO REV

DRN
NARLEY MOORE
DATE
7/8/70
CHK'D
DATE
9/1/70
ENG
DATE
9/12/70
PROD
DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3790-2	2N3790	DEC6531	MP6531
DEC2219	2N2219	IN748A	SAME
DEC3715	2N3715	IN964B	SAME
2N4234	2N4234	IN4001	SAME
DEC6534D	MP6534		

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE PCO REGULATOR
5408918

SIZE CODE NUMBER REV
B CS 5408918-0-1 A

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION

DATE 11/11/69

TITLE PC04 Engineering Specification					
REVISIONS					
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY DATE
A		0006	M. LEIS		3-1759

General Information:

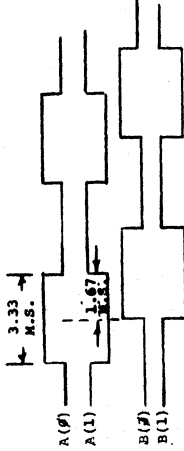
The PC04 comes in eight (8) configurations. They are the PC04P, PL (basic punch), PC04R, RB (basic reader), PC04S, RS, RL (punch and reader), and PC04C (punch, SCR, and reader). The 50 cycle variations are PC04PA, PM; PC04RA, RC. " and PC04CA with no variation in PC04R and RB. Table I-1 gives the block schematic references, UML, interface cables, and the applicable computers.

Logic Levels: Negative Logic Systems
Logic 1 is -3.2v to -3.9 volts
Logic 0 is 0v to -0.3 volts

Logic Levels: Positive Logic Systems
Outputs
Logic 1 is >+2.4v
Logic 0 <+0.4v

Reader Signals:
Reference drawing MS-D-PC04-0-2
(1) A(0), A(1), B(0), and B(1) are the signals used to drive the stepping motors via the four solenoid drivers.

The timing chart and graph for these signals would be:



ENG Charles A. Jones APPR Joe Becker
DEC FORM NO. 104
DRA 104A

SIZE CODE
A SP
PC04-0-4
NUMBER
1 OF 7
SHEET

TITLE PC04 Engineering Specification

CONTINUATION SHEET

- (5) The eight data holes also require a 10 msec. level to activate the punches.
- (6) Out-of-tape signal is generated from a micro-switch on the punch. It is at ground when the punch is out-of-tape.
- (7) Punch feed switch is used to manually feed tape through the punch.
- (8) The -3 volt or +5v supply is a bias on the punch sync coil.
- (9) The punch on/off power switch is used in the options not using the SCR driver. It simply supplies 115 volts to the punch motor.

Power Supply

- (1) Regulated +5 volts ± 0.25 volts
- (2) Regulated -15 volts ± 1.0 volt
- (3) -36 volts ± 4 volts

Power Requirements

Unit will run at 50 or 60 cycles, 115 volts $\pm 10\%$. 2.5 AMPS surge
4 AMPS surge

Reader

- (a) Temperature
(1) 55° - 110°F operating, 10° - 150°F non-operating
- (b) Humidity
(1) 20% - 95% w/o condensation operating; 5% - 95% w/o condensation non-operating.
- (c) Speed
(1) 300 - 310 characters/second full speed.
(2) 20 - 26 character/second single character rate.
- (d) Type of tape
(1) non-oi (less than 12% transmissivity)
- (e) Tape Life: Acceleration de-accelerate type operation - 30,000 cycles.

DEC FORM NO.
DRA 104A

SIZE CODE
A SP
PC04-0-4
NUMBER
3 OF 7
SHEET

TITLE PC04 Engineering Specification

CONTINUATION SHEET

- (2) Power (1) serves the function of supplying only half current to the stepping motor when the motor is stopped. This signal is 0 volts when the motor is stopped and -3 volts when the motor is active for negative logic systems and +2.0 volts when motor is active A.I <+0.8 v when the motor is stopped for positive logic systems.
- (3) The reader feed switch is simply an off line means of moving tape through the reader. A ground level performs this function.
- (4) The reader on/off line switch allows the operator to disable the unit from reading by putting the switch in the off-line position.
- (5) The reader on/off line switch is open whenever the reader is off line, and is >2.4V when the reader is on line.

Data Output Lines:

Hole	No Hole
-3 volts	0 volts
+2.4 volts	0 volts

Punch Signals:

Refer to drawing MS-D-PC04-0-2

- (1) The interface signal used to turn on the punch motor with an SCR driver option is Gnd when active and open or -3v when inactive.
- (2) The -36 volt is supplied to the solenoid coils on the punch motor and also to the solenoid drivers at the external control.
- (3) Punch sync is the signal generated from the sync timing wheel on the punch. Equally spaced (in time) positive and negative pulses (one each) for each shaft revolution is generated on this line.
- (4) Forward tape and punch feed hole: A ground level for 10 msec. 20% will punch feed hole and then advance the tape forward in preparation for another cycle for all configurations except PC04P and RL when the solenoid drivers are activated by a +2.0v signal.

DEC FORM NO.
DRA 104A

SIZE CODE
A SP
PC04-0-4
NUMBER
2 OF 7
SHEET

TITLE PC04 Engineering Specification

CONTINUATION SHEET

Punch

- (a) Temperature
(1) 55° - 110°F operating; 10° - 150°F non-operating
- (b) Humidity
(1) 20% - 95% w/o condensation - operating
(2) 5% - 95% w/o condensation - non-operating
- (c) Tension of tape supply
(1) Not to exceed 6 ounces
- (d) Speed
(1) 50 characters/second $\pm 5\%$

Marvane

+5v is +5v $\pm 5v$
-15v is -15v $\pm 20\%$
-30v is -36v $\pm 10\%$

DEC FORM NO.
DRA 104A

SIZE CODE
A SP
PC04-0-4
NUMBER
4 OF 7
SHEET

CONTINUATION SHEET		SIZE CODE		REV	
TITLE PC#4 Engineering Specification		PCO-0-4		A	
TABLE 1-1 PC#4 Configuration		SIZE CODE		REV	
CONFIGURATION	REFERENCE BLOCK SCHEMATICS	PUNCH MODULES	INTERFACE CABLES	READER MODULES	APPLICABLE COMPUTERS
PC#4P	D/BS/PC#4-0-2 Page 1 of 3	None	1-W077A	N/A	PDP8; PDP8/S; PDP8/I
PC#4PL	D/BS/PC#4-0-2 Page 3 of 3	3-M044	1-W033A	N/A	PDP8/L; PDP8E
PC#4R	D/BS/PC#4-0-2 Page 1 of 3	N/A	1-W077A	1-G918 4-W040 2-W512	PDP8; PDP8/S
PC#4RB	D/BS/PC#4-0-2 Pages 2 and 3 of 3	N/A	1-W077A	1-G918 4-W040 2-W512	PDP8/I; PDP8/L PDP8/E
PC#4B	D/BS/PC#4-0-2 Page 1 of 3	None	2-W077A	1-G918 4-W040 2-W512	PDP8; PDP8/S
PC#4BB	D/BS/PC#4-0-2 Page 2 of 3	None	2-W077A	1-G918 4-W040	PDP8/I
PC#4BL	D/BS/PC#4-0-2 Page 3 of 3	3-M044	2-W033C	1-G918 4-W040	PDP8/L PDP8/E
PC#4C	D/BS/PC#4-0-2 Page 1 of 3	None	2-W077A	1-G918 4-W040 2-W512	PDP9; PDP1#

DEC FORM NO 16-1022
DMA 106

SHEET 5 OF 7

ENGINEERING SPECIFICATION		SIZE CODE		REV	
TITLE PC#4 Engineering Specification - Test Procedure for Reader		PCO4-0-4		A	
CONTINUATION SHEET		SIZE CODE		REV	
TITLE PC#4 Engineering Specification - Test Procedure for Reader		PCO4-0-4		A	
B. -15 volts on A#8B and B#8B (± 1 volts).		SIZE CODE		REV	
C. -30 volts on B#6V and B#2D (-32 to -40 volts).		PCO4-0-4		A	
3. Shut power off and insert modules for PC#4.		SIZE CODE		REV	
4. Apply power and make same check as in 2.		PCO4-0-4		A	
5. Put cap. (6.8uf, 10-5306) between pins A#3A (+) and A#3C (-) and between pins B#3C (+) and B#3B (-).		SIZE CODE		REV	
		PCO4-0-4		A	

DEC FORM NO 16-1022
DMA 106

SHEET 7 OF 7

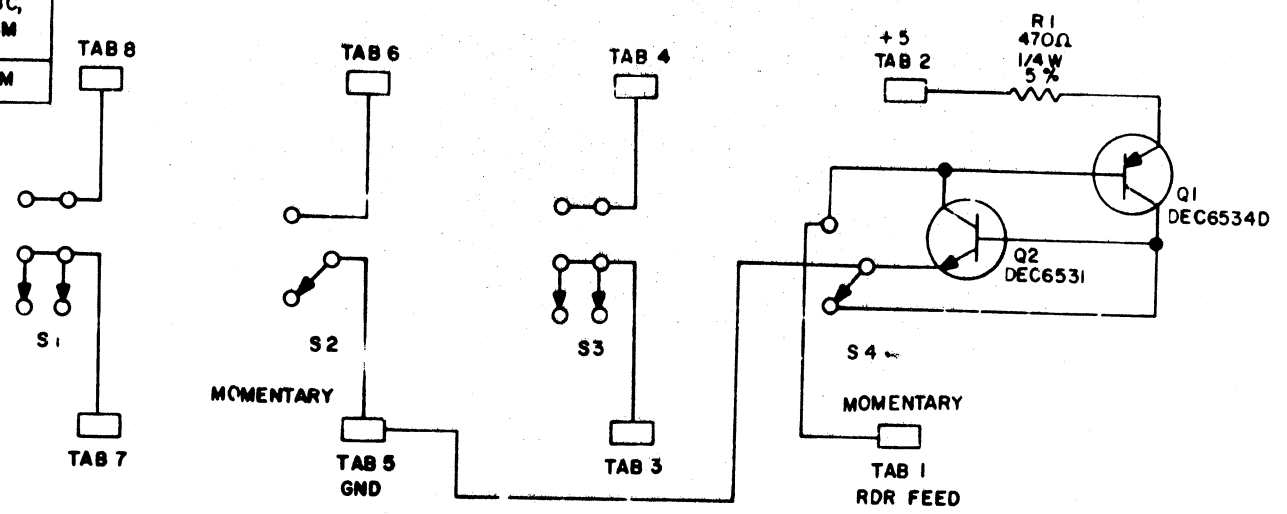
CONTINUATION SHEET		SIZE CODE		REV	
TITLE PC#4 Engineering Specification - Test Procedure for reader		PCO4-0-4		A	
CONTINUATION SHEET		SIZE CODE		REV	
TITLE PC#4 Engineering Specification - Test Procedure for reader		PCO4-0-4		A	
1. Do not apply power until the following checks are made.		SIZE CODE		REV	
a. Logic block empty.		PCO4-0-4		A	
b. A#1A, A#2A, A#1B, A#2B, B#1A, and B#2A are bare (no wiring or bussing).		SIZE CODE		REV	
c. B#1B and B#2B should be bussed together without any wires on them except for the PC#4C configuration when a white/green wire will be on B#1B.		PCO4-0-4		A	
d. Remove reader lamp.		SIZE CODE		REV	
e. Check caps for proper polarity in wiring.		PCO4-0-4		A	
f. Put ohmmeter on X100 scale and check regulator board tabs 1 thru 5 and 7 for lack of short to ground. Tabs 6 and 8 should indicate a short to ground.		SIZE CODE		REV	
g. Check fuses for proper rating. Also, should be s/o/b'o.		PCO4-0-4		A	
h. Check for continuity between reader lamp ground slot and chassis ground.		SIZE CODE		REV	
i. Check the following wires for proper connection.		PCO4-0-4		A	
Color	Location	Color	Location	REV	
+black (str)	B#8C	*wh/blue	A#7B	A	
*wh/black (str)	B#7C	*wh/green	B#1B	A	
#brown (str)	A#7B	#brown (solid)	B#3R, S	A	
*yellow (str)	A#1V	*orange (solid)	B#4R, S	A	
*wh/yellow (str)	A#8F	*yellow (solid)	B#5R, S	A	
+white (str)	B#1U	*violet (solid)	B#6R, S	A	
grey/red (str)	A#8A	+punch configurations		A	
grey/yellow (str)	A#8B	*only on PC#4C configuration		A	
blue (str)	B#6V	*reader configurations		A	
j. Put reader lamp back in position making sure that the tension on the lamp is sufficient for good contact.		SIZE CODE		REV	
2. Apply AC power to the unit and check.		PCO4-0-4		A	
a. +5 volts on A#8U and B#8A (+5 volts $\pm .25$ volts).		SIZE CODE		REV	
		PCO4-0-4		A	

DEC FORM NO 16-1022
DMA 106

SHEET 6 OF 7

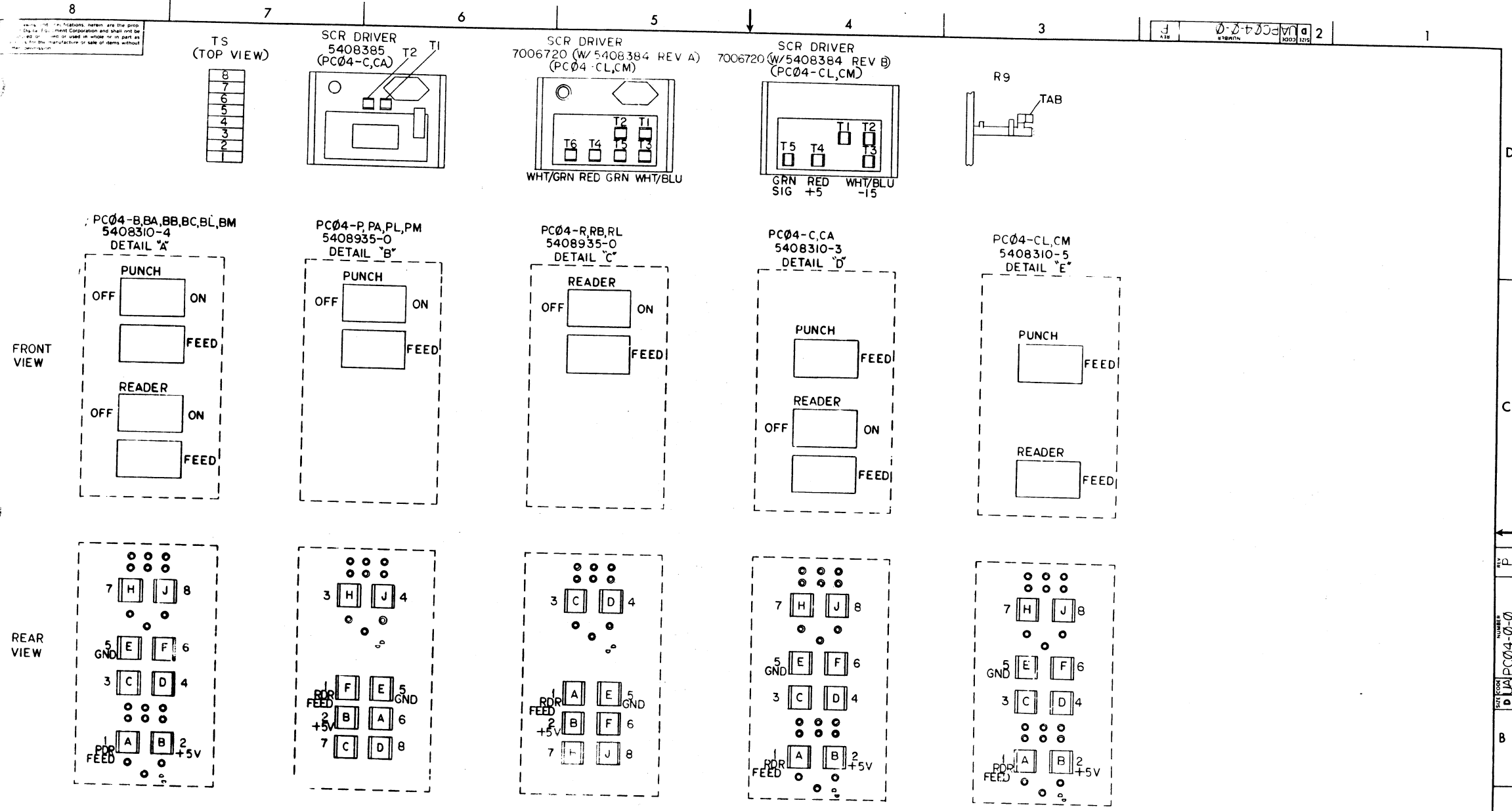
THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY. COPYRIGHT 1969 BY DIGITAL EQUIPMENT CORPORATION

PART NUMBER	SWITCHES INSTALLED	USAGE
5408310-1	S2	PC05-P-PA
5408310-3	S2, S3, S4	PC04-C-CA PC05-C-CA
5408310-4	S1, S2, S3, S4	PC04-B-BA BB, BC, BL, BM
5408310-5	S2, S4	PC04-CL-CM



UNLESS OTHERWISE INDICATED:
S1, S3 ARE ROCKER # 1208341
S2, S4 ARE ROCKER # 1208375
TABS ARE FASTON TAB 41290 AMP

REVISIONS CHG NO REV 1 1 2 1 3 1 4 1 5 1 6 1 7 1 8 1 9 1 10 1				DATE 8-1-69 DATE 8-1-69 DATE 5/12/69 DATE		TRANSISTOR & DIODE CONVERSION CHART DEC EIA 2N3055 2N3055 2N3055 2N3055 2N3055 2N3055 2N3055 2N3055				EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		TITLE PCC SWITCH BOARD 5408310 SIZE CODE NUMBER B CS 5408310-0-1 PRINTED CIRCUIT REV D			
--	--	--	--	---	--	--	--	--	--	---	--	--	--	--	--

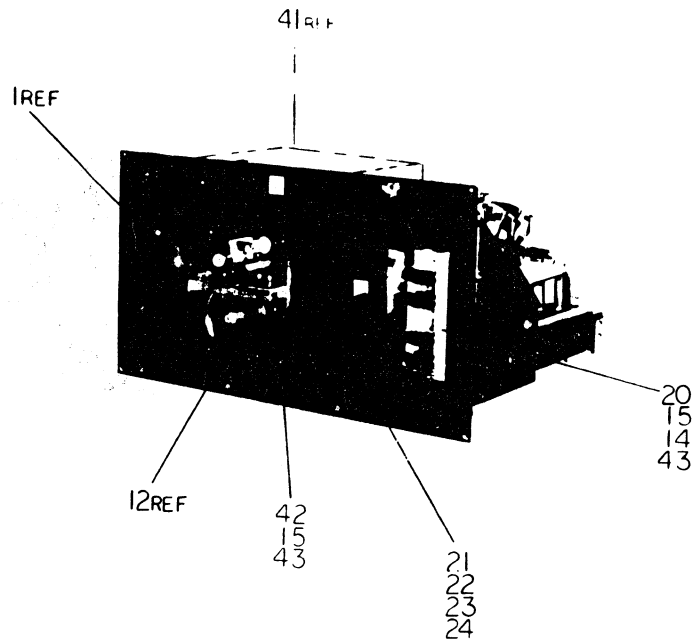


FIRST USED ON OPTION/MODEL		QTY	DESCRIPTION	PART NO	ITEM NO
PC04					
UNLESS OTHERWISE SPECIFIED (IN THE REGION IN INCHES)		PARTS LIST			
TOLERANCES		DATE	digital EQUIPMENT CORPORATION WATFORD, MASSACHUSETTS		
DECIMALS	ANGLES	CHK'D	DATE	TITLE	
XXX - 000	10 30	R. CADWELL	6-5-69	PC04	
AK - 07		ENG. G.	DATE	READ-TO-PUNCH	
R - 1		BECKNER	6-6-69	(SW E TERM LOCATIONS)	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE FINISH		PROJ. ENG. G.	DATE	SIZE CODE	
		BECKNER	6-6-69	NUMBER	
MATERIAL		PROD. B.	DATE	REV	
		ANTONUCIO		F	
FINISH		NEXT HIGHER ASSY		SCALE	
		A-M-L-PC01-0		DUA PC04-0-0	
		SCALE		DIST	
		SHEET 3 OF 4			

CHECK NO.		CHQ	CHANGE NO.	REV.
-----------	--	-----	------------	------

NOTES:

1. WIRING OF SWITCHES VARIES DEPENDING ON UNIT MODEL BEING BUILT. FOR SWITCH CONFIGURATION, FOR WIRING PURPOSES SEE: DETAIL "A" FOR MODEL "B" RAMPING PLATFORM DETAIL "B" DETAIL "C" FOR TAILER DETAIL "R" "RB" AND DETAIL "D" FOR MODEL "C" AND "CA"; DETAIL "E" HAS NO EFFECT.
2. IF THE SCR DRIVER UNIT IS USED, THIS WIRE WILL CONNECT TO SCR DRIVER T1, NOT T5-6. FOR CORRECT WIRING WHEN UNIT IS USED, SEE SCR DRIVER WIRE LIST (SHEET 3)
3. REMOVE CLAMP FROM CHASSIS, PLACE CABLE IN POSITION, THEN REINSTALL CLAMP IN POSITION OVER CABLE.
4. COVER ASSY TO BE ATTACHED TO CHASSIS ASSY AFTER ALL OTHER INSTALLATIONS ARE COMPLETE. TO DO SO, READER KNOB MUST BE REMOVED, COVER INSTALLED, THEN KNOB REPLACED ON READER SHAFT.
5. IN MODELS P AND PA THIS WIRE WILL BE TIED BACK AND WHITE SHRINKABLE TUBING (ITEM 45) REQD.
6. ON ALL MODELS ALL UNUSED WIRES SHOULD BE CONNECTED TO THEIR APPROPRIATE TABS.
7. CABLE HOLD DOWN BAR TO BE INSTALLED BEFORE PIPING MACHINE.

[illegible]

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
PC04-0			PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN HUTNAK	DATE 4-10-69	 DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
		CHKD. R. CARVILLI	DATE 6-5-69		
DECIMALS	ANGLES	ENG. GEO. BECKNER	DATE 6-6-69		
.XX - .005	20° 30'	PROJ. ENG. GEO. BECKNER	DATE 6-6-69		
.XX - .02		PROJ. ANTONUCCIO	DATE 6-6-69		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		TITLE		PC04	
				READER & PUNCH (WIRING)	
MATERIAL	NEXT HIGHER ASSY.		SIZE CODE		NUMBER
FINISH	A-ML-PC04		DJA		PC04-0-0
	SCALE		DIST.		REV
	SHEET 4 OF 4				P

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ITEM NO.	DWG. NO. / PART NO.	DESCRIPTION	PC84-B, BB	PC84-BA, BA BC	PC84-BL	PC84-BM	PC84-C	PC84-CA	PC84-CL	PC84-CM	PC84-P	PC84-PA	PC84-PL	PC84-PM	PC84-R, RB	PC84-RL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

CHK	REVISIONS	CHANGE NO.	REV.
254	REVISED REDRAWN	PC04 - 00053	M
		31-Owner 12-13-71	
		A - KENT	
		Allen Kent 4 Jan 72	
254		PC04 - 00057	N
		Allen 3-28-72	
		A. WILLIAMS	
		Williams 4-27-72	
254		PC04 - 00059	P
		Williams 5-28-72	
		A. WILLIAMS	
		J.R. Bette 6/4/72	

FIRST USED ON OPTION/MODEL
PC04 (ALL)

UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED

DIMENSION IN INCHES
TOLERANCES

VALUES	FRACTIONS	ANGLES
$\pm .005$	$\pm 1/64$	$\pm 0^{\circ}30'$

FINAL SURFACE QUALITY ✓
REMOVE BURRS AND BREAK SHARP

CORNERS

MATERIAL

FINISH

DRN. R. HUTNAK	DATE 4-10-65
CHK'D. R. CARVELLI	DATE 6-5-65
ENG. GEO. BECKNER	DATE 6-6-65
PROJ. ENG. GEO. BECKNER	DATE 6-6-65
PROD. R. ANTONUCCIO	DATE 6-6-65

NEXT HIGHER ASSY.

D-UA-PC Ø4-Ø-Ø

SCALE +-----+

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE _____

PCØ4 READER

AND PUNCH

DATE	TIME	NAME	ROOM
------	------	------	------

SIZE	CODE	NUMBER	RE
C	PI	PC04-0-0	P

[illegible]

[illegible]

LEGEND		
PART	MODEL USED ON	WIRELIST
7006268-0	PC04-B,BA,BB,BC, C,CA, D,DA, R,RA	K-WL-PC04-0-5
7006268-1	PC04-B,BA, BL,BM, RL	K-WL-PC04-0-6
7006268-2	PC04-CL,CM	K-WL-PC04-0-7

- NOTES:
1. CONNECTIONS ON ITEM 34 TO BE SOLDERED AND LOCATED AT MINIMUM PRACTICAL HEIGHT ABOVE BOARD.
 2. CONNECTOR BLOCKS TO BE SHOWN TO GND LUG AS SHOWN.
 3. USE BLUE WIRE (ITEM 3) FOR HAND WRAPPED WIRING.
 4. ~~PC04-B,BA,BB,BC~~ TO CONVERT 7006268-0 BLOCK BACK TO NEG LOGIC MACHINES, DO FOLLOW X:
A. REMOVE TRANSISTORS IN READER FEED SWITCH ASSY
B. WIRE CHANGES
DELETES - B085-B07E
ADD - A02N-A08H
 B09E-B07E
 A02E-A01N
C. DELETE 100K RESISTOR FROM A08A-A08F

EXTERNAL COMPONENT TABLE					
ITEM	COMP	POL	FROM	TO	REMARKS
10	CAP	+	A03A	A03C	5.8pF
11	CAP	-	B07A	B03C	5.8pF

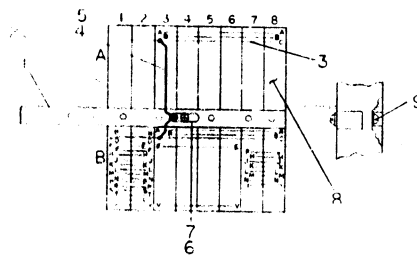
7006268-2

EXTERNAL COMPONENT TABLE					
ITEM	COMP	POL	FROM	TO	REMARKS
10	CAP	+	A03A	A03C	-
11	CAP	-	B07B	B03C	+
12	RES		A08A	A08F	100K
13	RES		A08E	A08C	3.0K

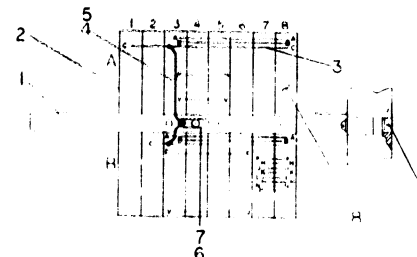
7006268-1

EXTERNAL COMPONENT TABLE					
ITEM	COMP	POL	FROM	TO	REMARKS
10	CAP	+	A03A	A03C	-
11	CAP	-	B07B	B03C	+
12	RES		A08A	A08F	100K

7006268-0



7006268-0
(3.8K, 81)



7006268-1
(H1, A1, BM, DF)
7006268-0
(110)

DATE	BY	CHKD	APPD	REV
10/1/72	W. J. H. MEYER			1
10/1/72	W. J. H. MEYER			2
10/1/72	W. J. H. MEYER			3
10/1/72	W. J. H. MEYER			4
10/1/72	W. J. H. MEYER			5
10/1/72	W. J. H. MEYER			6
10/1/72	W. J. H. MEYER			7
10/1/72	W. J. H. MEYER			8
10/1/72	W. J. H. MEYER			9
10/1/72	W. J. H. MEYER			10

FIRST USE ON OPTION/NO		QTY	DESCRIPTION	UNIT NO.	REV
PC04					
UNLESS OTHERWISE SPECIFIED					
DIMENSIONS IN INCHES					
TOLERANCES					
POSITION					
FINISH					
MATERIAL					
DRAWN					
CHECKED					
APPROVED					
DATE					
BY					
TITLE					
EQUIPMENT CORPORATION					
D-UA-PC04-0-0					
SCALE					
SHEET					

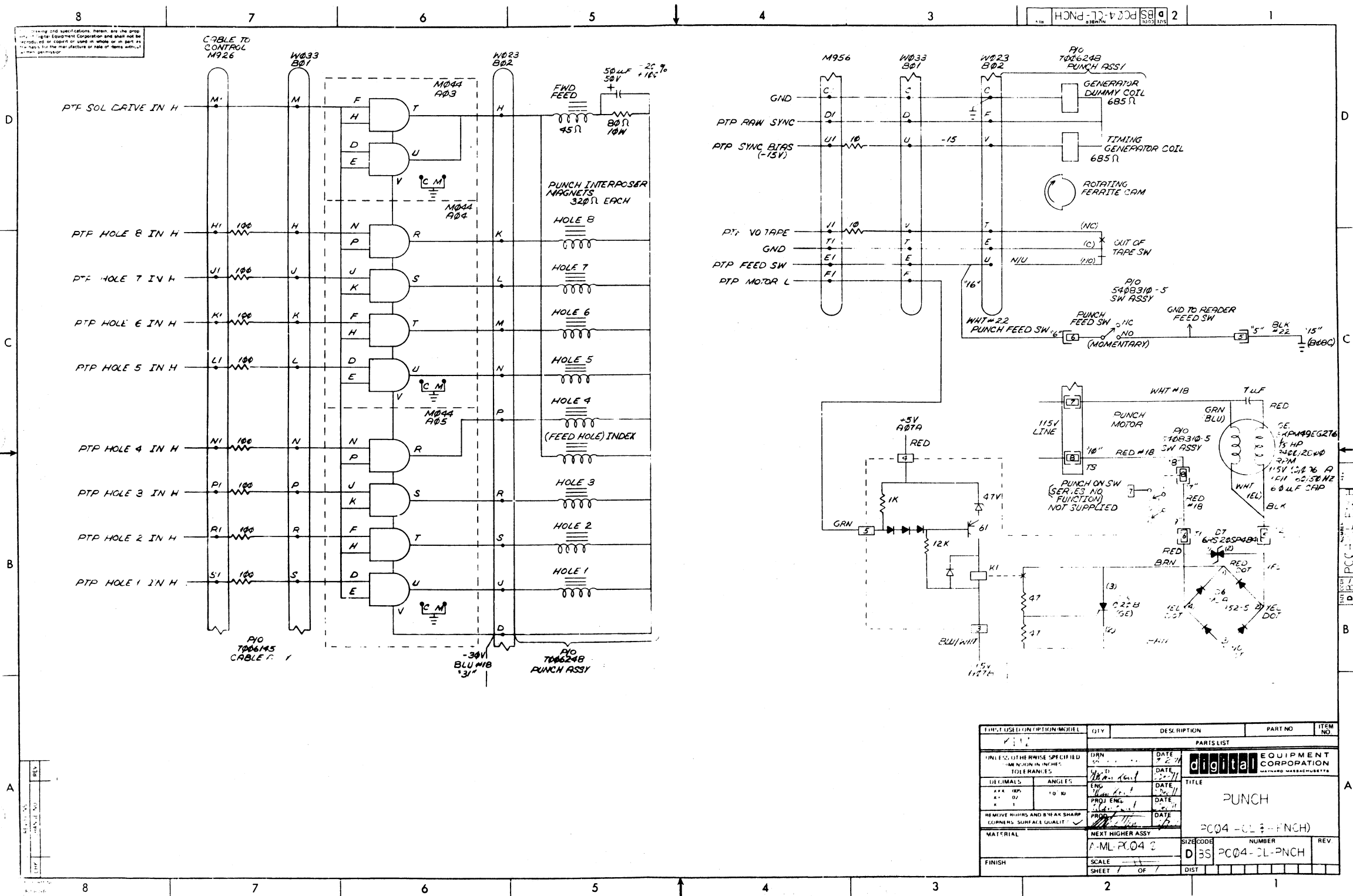
PARTS LIST

MAD	BY ROBERT HUTNAK	CHECKED <i>Carwell</i>	SECTION
DATE	2/20/69	DATE 5/5/69	1
ENG		PROD	ISSUED SECT.
DATE	<i>2/20/69</i>	DATE	1

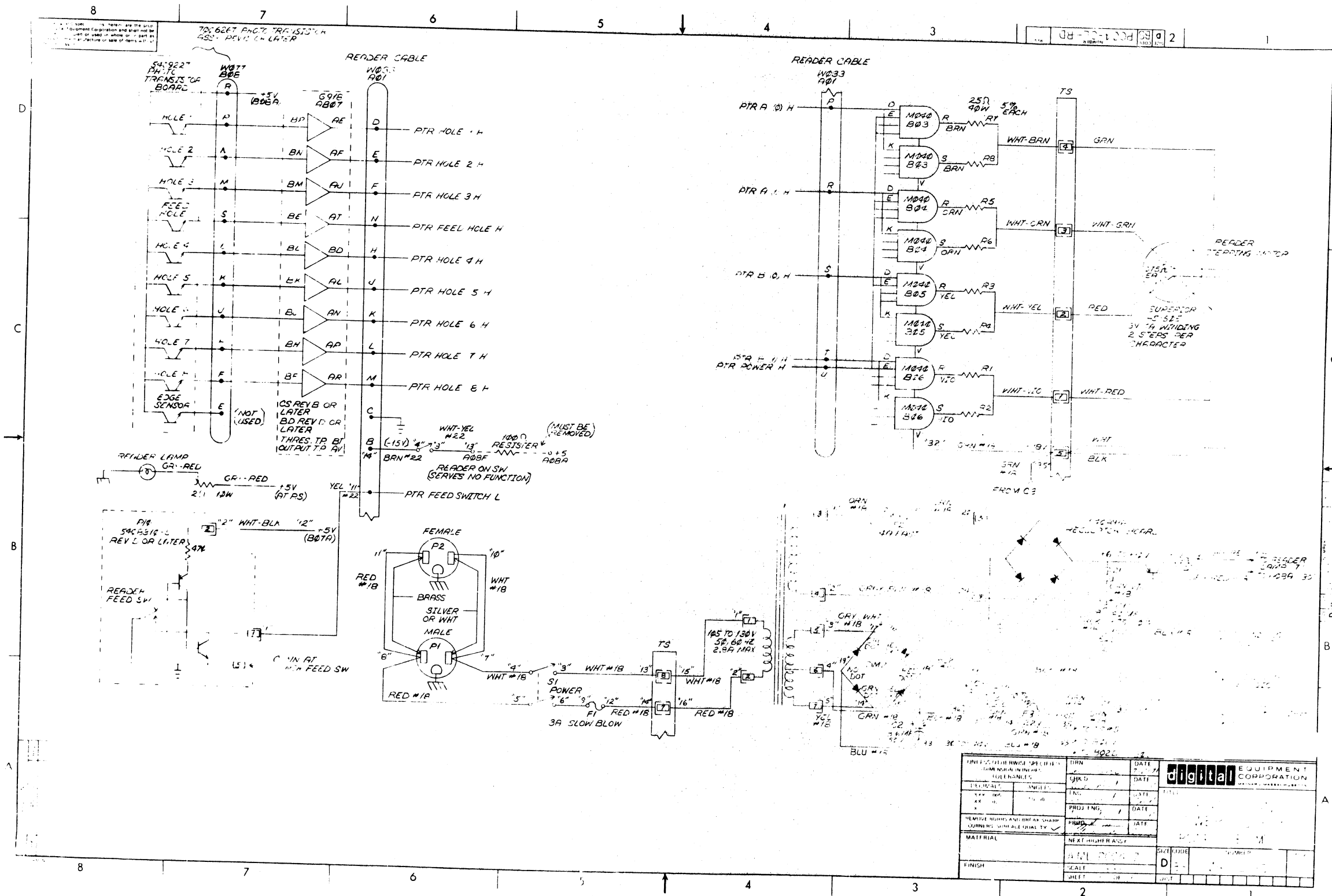
ITEM NO.	WG NO. / PART NO.	DESCRIPTION
1	-IA-7407077-0-0	MTG BAR 6 IN.
2	002244	144 PIN CONN BLOCK WRAP TYPE
3	002188	BUS BAR BERG NO. 3584-032
4	107560-1	#22 AWG BUS WIRE
5	107265	#22 TUBING, TEFLON WHITE
6	007597	TERMINAL SHAKEPROOF #2116-08-00
7	006034	SCR PHL PAN HD #8-32 x .19 LG SST
8	107470-10	#21 AWG SOLID KYNAR BLUE
9	007641	SCR PHL FIL HD #8-32 x 1/2 LG SST
10	005306	CAP 6.8 MFD 35V 10%
11	000088	CAP. 100 MFD 4V 10%
12	3-00231	RES 100ohm 1/4W 5%
13	300295	RES 330 OHM 1/4W 5%
REF	K-WL-PC04-0-5	WIRE LIST
REF	K-WL-PC04-0-6	WIRE LIST
REF	K-WL-PC04-0-7	WIRE LIST

TITLE	PC-1 WIRED ASSY	ASSY NO.	SIZE	CODE
		E-AD-700b268-0-0	A	PI
		SHEET 1 OF 1	DIST	

[illegible]



PART, USE OR OPTION CODE		QTY	DESCRIPTION	PART NO	ITEM NO
PARTS LIST					
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES TOLERANCES			DATE 7-2-77	digital EQUIPMENT CORPORATION NATURAL MASSACHUSETTS TITLE PUNCH PC04-CL-PNCH	
DECIMALS	ANGLES	DATE 7-2-77			
XXX .XX	° ' "	DATE 7-2-77			
XXX .02	° ' "	DATE 7-2-77			
XXX .1	° ' "	DATE 7-2-77			
XXX .5	° ' "	DATE 7-2-77			
REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY			DATE 7-2-77		
MATERIAL		NEXT HIGHER ASSY		SIZE CODE	NUMBER
FINISH		SCALE		D3S	PC04-CL-PNCH
		SHEET 1 OF 1		DIST	REV



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REV H 6-0-6 PC04 NUMBER SIZE CODE K WL 2

1

3

4

B

B

A

A

REVISONS		REV
HR	CHANGE NO	-
ORIGINATED		
PC04-C054		
PC04-55	A	
4-9-72		
C. YOUSE		
1-1-72		
PC04-C056		H
YOUSE		
5-22-72		

FIRST USED ON OPTION MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
PC04					
PARTS LIST					
DRN.	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
CHK'D	DATE				
ENG	DATE				
PROJ ENG	DATE				
PROD	DATE				
NEXT HIGHER ASSEMBLY		TITLE WIRELIST PC04-BL, BM, PL, FM AND RL			
LEAD TO SUB					
SCALE	UNIT	SIZE	CODE	NUMBER	REV
		K	WL	14-0	H

ACCESSORY LIST

D	DOCUMENT
DN	DOCUMENT CHANGE NOTICE
PA	PAPER TAPE ASCII
PB	PAPER TAPE BINARY
FM	PAPER TAPE READ-IN-MODE

KIT CHECK

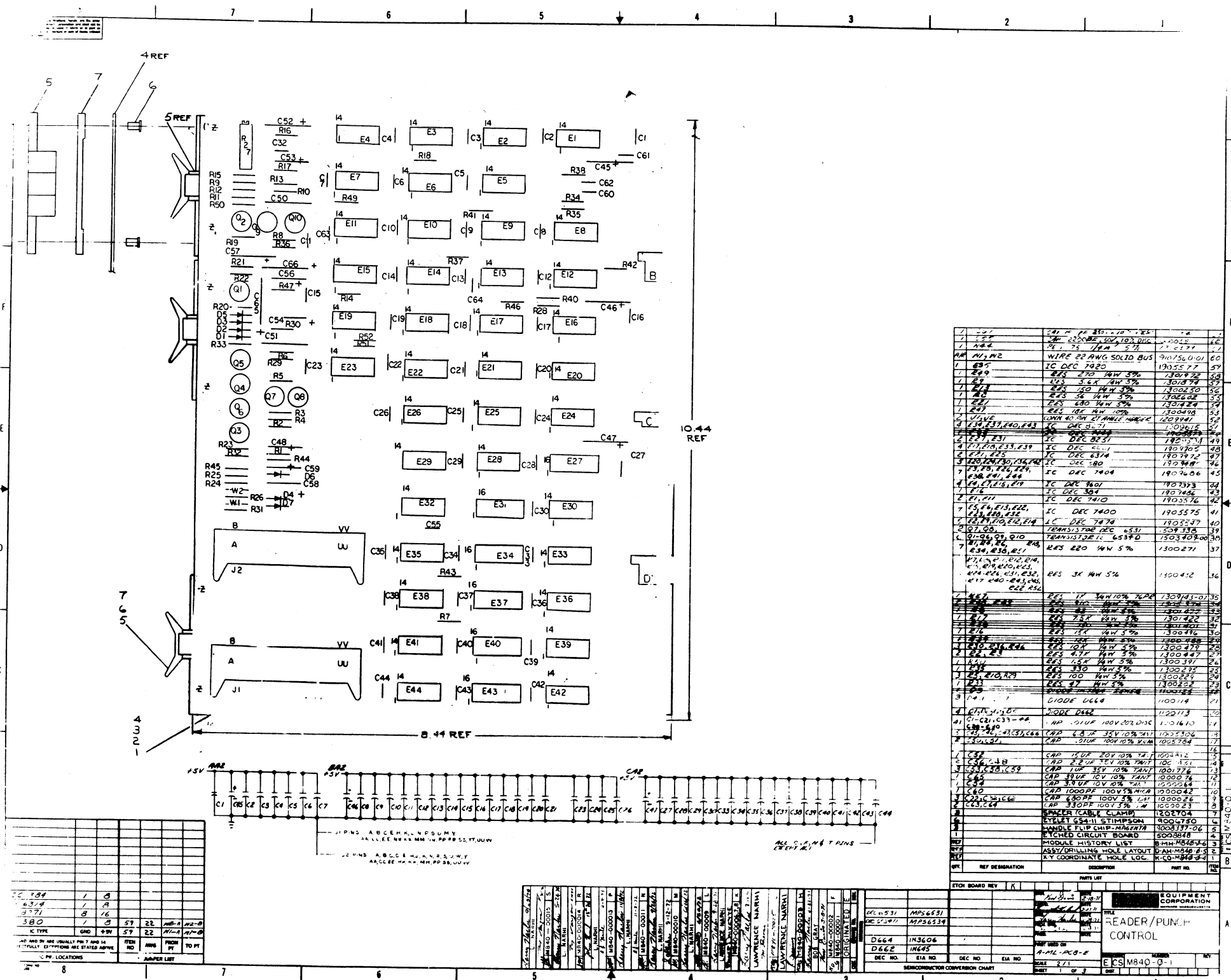
BY _____ DATE _____

INSTALLATION CHECK

BY _____ DATE _____

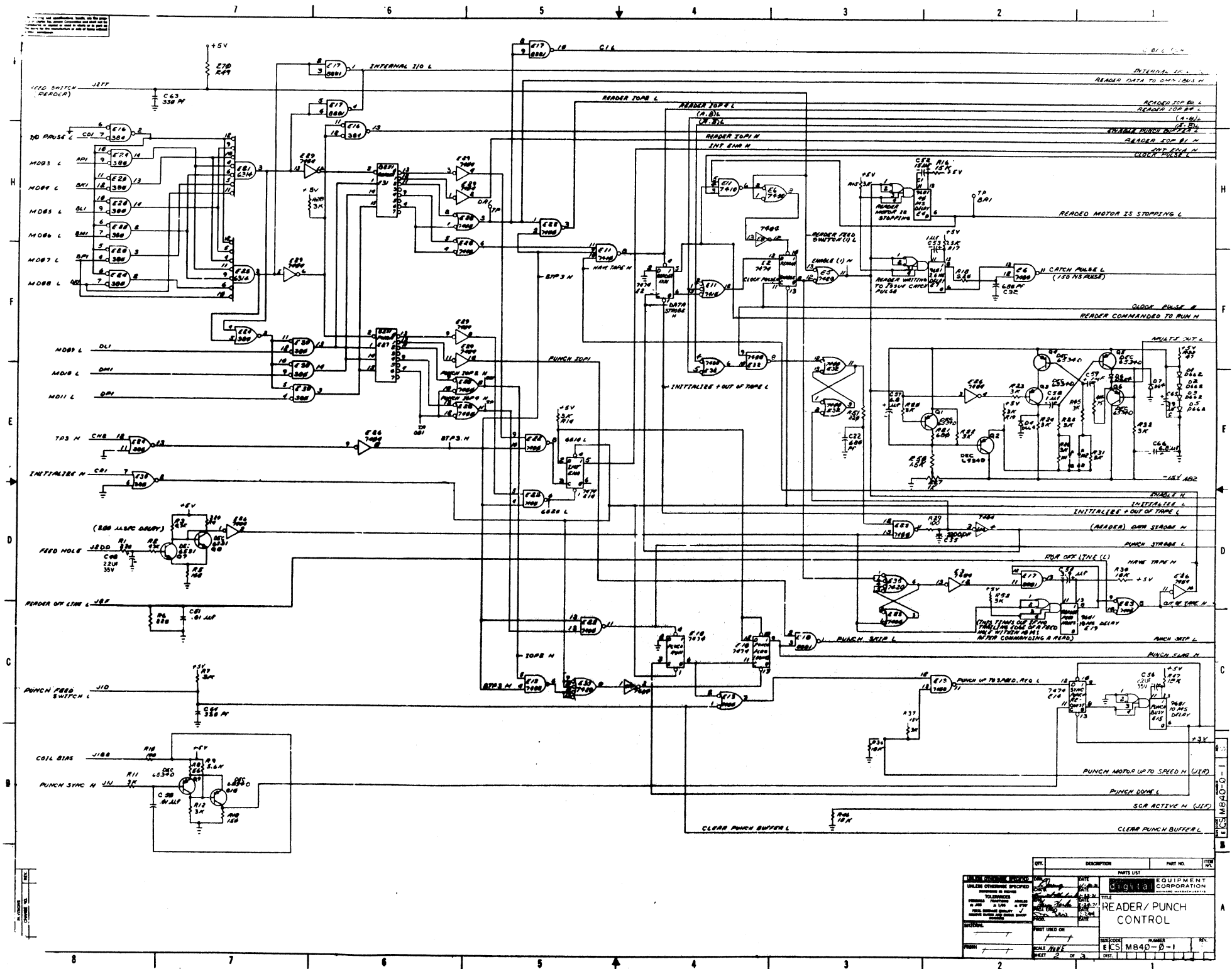
PROD A. WILLIAMS DATE 10-5-73	ISSUED SECT.
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TITLE	PAIR DATE READER	ASSY. NO.	SIZE	CODE	NUMBER	REV	CO NO
	ACCESSORY LIST		A	AL	PC004 0-01		8000
		SHEET 1 OF					



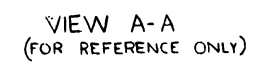
REF	DESIGNATION	VALUE	QTY	UNIT	PRICE	TOTAL
1	R1	10K	1	RES	0.05	0.05
2	R2	10K	1	RES	0.05	0.05
3	R3	10K	1	RES	0.05	0.05
4	R4	10K	1	RES	0.05	0.05
5	R5	10K	1	RES	0.05	0.05
6	R6	10K	1	RES	0.05	0.05
7	R7	10K	1	RES	0.05	0.05
8	R8	10K	1	RES	0.05	0.05
9	R9	10K	1	RES	0.05	0.05
10	R10	10K	1	RES	0.05	0.05
11	R11	10K	1	RES	0.05	0.05
12	R12	10K	1	RES	0.05	0.05
13	R13	10K	1	RES	0.05	0.05
14	R14	10K	1	RES	0.05	0.05
15	R15	10K	1	RES	0.05	0.05
16	R16	10K	1	RES	0.05	0.05
17	R17	10K	1	RES	0.05	0.05
18	R18	10K	1	RES	0.05	0.05
19	R19	10K	1	RES	0.05	0.05
20	R20	10K	1	RES	0.05	0.05
21	R21	10K	1	RES	0.05	0.05
22	R22	10K	1	RES	0.05	0.05
23	R23	10K	1	RES	0.05	0.05
24	R24	10K	1	RES	0.05	0.05
25	R25	10K	1	RES	0.05	0.05
26	R26	10K	1	RES	0.05	0.05
27	R27	10K	1	RES	0.05	0.05
28	R28	10K	1	RES	0.05	0.05
29	R29	10K	1	RES	0.05	0.05
30	R30	10K	1	RES	0.05	0.05
31	R31	10K	1	RES	0.05	0.05
32	R32	10K	1	RES	0.05	0.05
33	R33	10K	1	RES	0.05	0.05
34	R34	10K	1	RES	0.05	0.05
35	R35	10K	1	RES	0.05	0.05
36	R36	10K	1	RES	0.05	0.05
37	R37	10K	1	RES	0.05	0.05
38	R38	10K	1	RES	0.05	0.05
39	R39	10K	1	RES	0.05	0.05
40	R40	10K	1	RES	0.05	0.05
41	R41	10K	1	RES	0.05	0.05
42	R42	10K	1	RES	0.05	0.05
43	R43	10K	1	RES	0.05	0.05
44	R44	10K	1	RES	0.05	0.05
45	R45	10K	1	RES	0.05	0.05
46	R46	10K	1	RES	0.05	0.05
47	R47	10K	1	RES	0.05	0.05
48	R48	10K	1	RES	0.05	0.05
49	R49	10K	1	RES	0.05	0.05
50	R50	10K	1	RES	0.05	0.05
51	C1	100P	1	CAP	0.05	0.05
52	C2	100P	1	CAP	0.05	0.05
53	C3	100P	1	CAP	0.05	0.05
54	C4	100P	1	CAP	0.05	0.05
55	C5	100P	1	CAP	0.05	0.05
56	C6	100P	1	CAP	0.05	0.05
57	C7	100P	1	CAP	0.05	0.05
58	C8	100P	1	CAP	0.05	0.05
59	C9	100P	1	CAP	0.05	0.05
60	C10	100P	1	CAP	0.05	0.05
61	C11	100P	1	CAP	0.05	0.05
62	C12	100P	1	CAP	0.05	0.05
63	C13	100P	1	CAP	0.05	0.05
64	C14	100P	1	CAP	0.05	0.05
65	C15	100P	1	CAP	0.05	0.05
66	C16	100P	1	CAP	0.05	0.05
67	C17	100P	1	CAP	0.05	0.05
68	C18	100P	1	CAP	0.05	0.05
69	C19	100P	1	CAP	0.05	0.05
70	C20	100P	1	CAP	0.05	0.05
71	C21	100P	1	CAP	0.05	0.05
72	C22	100P	1	CAP	0.05	0.05
73	C23	100P	1	CAP	0.05	0.05
74	C24	100P	1	CAP	0.05	0.05
75	C25	100P	1	CAP	0.05	0.05
76	C26	100P	1	CAP	0.05	0.05
77	C27	100P	1	CAP	0.05	0.05
78	C28	100P	1	CAP	0.05	0.05
79	C29	100P	1	CAP	0.05	0.05
80	C30	100P	1	CAP	0.05	0.05
81	C31	100P	1	CAP	0.05	0.05
82	C32	100P	1	CAP	0.05	0.05
83	C33	100P	1	CAP	0.05	0.05
84	C34	100P	1	CAP	0.05	0.05
85	C35	100P	1	CAP	0.05	0.05
86	C36	100P	1	CAP	0.05	0.05
87	C37	100P	1	CAP	0.05	0.05
88	C38	100P	1	CAP	0.05	0.05
89	C39	100P	1	CAP	0.05	0.05
90	C40	100P	1	CAP	0.05	0.05
91	C41	100P	1	CAP	0.05	0.05
92	C42	100P	1	CAP	0.05	0.05
93	C43	100P	1	CAP	0.05	0.05
94	C44	100P	1	CAP	0.05	0.05
95	C45	100P	1	CAP	0.05	0.05
96	C46	100P	1	CAP	0.05	0.05
97	C47	100P	1	CAP	0.05	0.05
98	C48	100P	1	CAP	0.05	0.05
99	C49	100P	1	CAP	0.05	0.05
100	C50	100P	1	CAP	0.05	0.05
101	E1	7418	1	IC	0.50	0.50
102	E2	7418	1	IC	0.50	0.50
103	E3	7418	1	IC	0.50	0.50
104	E4	7418	1	IC	0.50	0.50
105	E5	7418	1	IC	0.50	0.50
106	E6	7418	1	IC	0.50	0.50
107	E7	7418	1	IC	0.50	0.50
108	E8	7418	1	IC	0.50	0.50
109	E9	7418	1	IC	0.50	0.50
110	E10	7418	1	IC	0.50	0.50
111	E11	7418	1	IC	0.50	0.50
112	E12	7418	1	IC	0.50	0.50
113	E13	7418	1	IC	0.50	0.50
114	E14	7418	1	IC	0.50	0.50
115	E15	7418	1	IC	0.50	0.50
116	E16	7418	1	IC	0.50	0.50
117	E17	7418	1	IC	0.50	0.50
118	E18	7418	1	IC	0.50	0.50
119	E19	7418	1	IC	0.50	0.50
120	E20	7418	1	IC	0.50	0.50
121	E21	7418	1	IC	0.50	0.50
122	E22	7418	1	IC	0.50	0.50
123	E23	7418	1	IC	0.50	0.50
124	E24	7418	1	IC	0.50	0.50
125	E25	7418	1	IC	0.50	0.50
126	E26	7418	1	IC	0.50	0.50
127	E27	7418	1	IC	0.50	0.50
128	E28	7418	1	IC	0.50	0.50
129	E29	7418	1	IC	0.50	0.50
130	E30	7418	1	IC	0.50	0.50
131	E31	7418	1	IC	0.50	0.50
132	E32	7418	1	IC	0.50	0.50
133	E33	7418	1	IC	0.50	0.50
134	E34	7418	1	IC	0.50	0.50
135	E35	7418	1	IC	0.50	0.50
136	E36	7418	1	IC	0.50	0.50
137	E37	7418	1	IC	0.50	0.50
138	E38	7418	1	IC	0.50	0.50
139	E39	7418	1	IC	0.50	0.50
140	E40	7418	1	IC	0.50	0.50
141	E41	7418	1	IC	0.50	0.50
142	E42	7418	1	IC	0.50	0.50
143	E43	7418	1	IC	0.50	0.50
144	E44	7418	1	IC	0.50	0.50
145	E45	7418	1	IC	0.50	0.50
146	E46	7418	1	IC	0.50	0.50
147	E47	7418	1	IC	0.50	0.50
148	E48	7418	1	IC	0.50	0.50
149	E49	7418	1	IC	0.50	0.50
150	E50	7418	1	IC	0.50	0.50
151	Q1	2N4148	1	DIODE	0.05	0.05
152	Q2	2N4148	1	DIODE	0.05	0.05
153	Q3	2N4148	1	DIODE	0.05	0.05
154	Q4	2N4148	1	DIODE	0.05	0.05
155	Q5	2N4148	1	DIODE	0.05	0.05
156	Q6	2N4148	1	DIODE	0.05	0.05
157	Q7	2N4148	1	DIODE	0.05	0.05
158	Q8	2N4148	1	DIODE	0.05	0.05
159	Q9	2N4148	1	DIODE	0.05	0.05
160	Q10	2N4148	1	DIODE	0.05	0.05
161	Q11	2N4148	1	DIODE	0.05	0.05
162	Q12	2N4148	1	DIODE	0.05	0.05
163	Q13	2N4148	1	DIODE	0.05	0.05
164	Q14	2N4148	1	DIODE	0.05	0.05
165	Q15	2N4148	1	DIODE	0.05	0.05
166	Q16	2N4148	1	DIODE	0.05	0.05
167	Q17	2N4148	1	DIODE	0.05	0.05
168	Q18	2N4148	1	DIODE	0.05	0.05
169	Q19	2N4148	1	DIODE	0.05	0.05
170	Q20	2N4148	1	DIODE	0.05	0.05
171	Q21	2N4148	1	DIODE	0.05	0.05
172	Q22	2N4148	1	DIODE	0.05	0.05
173	Q23	2N4148	1	DIODE	0.05	0.05
174	Q24	2N4148	1	DIODE	0.05	0.05
175	Q25	2N4148	1	DIODE	0.05	0.05
176	Q26	2N4148	1	DIODE	0.05	0.05
177	Q27	2N4148	1	DIODE	0.05	0.05
178	Q28	2N4148	1	DIODE	0.05	0.05
179	Q29	2N4148	1	DIODE	0.05	0.05
180	Q30	2N4148	1	DIODE	0.05	0.05
181	Q31	2N4148	1	DIODE	0.05	0.05
182	Q32	2N4148	1	DIODE	0.05	0.05
183	Q33	2N4148	1	DIODE	0.05	0.05
184	Q34	2N4148	1	DIODE	0.05	0.05
185	Q35	2N4148	1	DIODE	0.05	0.05
186	Q36	2N4148	1	DIODE	0.05	0.05
187	Q37	2N4148	1	DIODE	0.05	0.05
188	Q38	2N4148	1	DIODE	0.05	0.05
189	Q39	2N4148	1	DIODE	0.05	0.05
190	Q40	2N4148	1	DIODE	0.05	0.05
191	Q41	2N4148	1	DIODE	0.05	0.05
192	Q42	2N4148	1	DIODE	0.05	0.05
193	Q43	2N4148	1	DIODE	0.05	0.05
194	Q44	2N4148	1	DIODE	0.05	0.05
195	Q45	2N4148	1	DIODE	0.05	0.05
196	Q46	2N4148	1	DIODE	0.05	0.05
197	Q47	2N4148	1	DIODE	0.05	0.05
198	Q48	2N4148	1	DIODE	0.05	0.05
199	Q49	2N4148	1	DIODE	0.05	0.05
200	Q50	2N4148	1	DIODE	0.05	0.05

384	1	8				
6314	1	14				
377	8	16				
380	1	8	57	22	MS-A	MS-B
			57	22	MS-A	MS-B
IC TYPE	QND	QND				
AND ARE BY THE USUAL PAY 7 AND 1			ITEM		PRICE	TO PT
TOTALLY. EXEMPTIONS ARE STATED ABOVE			NO		PT	
CP. LOCATIONS						
AMPER LIST						



LEGEND		
4B-2 10.	7007036-1	DIM X
BC28K-16	7007036-20	5FT ± 2 IN
BC28K-10	7007036-10	10FT ± 2 IN
BC28K-15	7007036-15	15FT ± 3 IN
EC28K-25	7007036-25	25FT ± 3 IN
BC28K-50	7007036-50	50FT ± 12 IN

VV	UU
TT	SS
RR	PP
NN	MM
LL	KK
JJ	HH
FF	EE
DD	CC
BB	AA
ZX	Y
VT	W
RN	U
LJ	S
FDB	P
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1	ETCH BOARD CONNECTOR	12I0073-O	3
1	M955 (CABLE CONNECTOR	M955	2
1	I/O CABLE	SEE LEGEND	1
QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
EQUIPMENT CORPORATION RAYMOND, MASSACHUSETTS			
TITLE			
I/O CABLE (BC/EK)			
NEXT HIGHER ASSY			
SCALE 10X-8		SIZE CODE	
SHEET OF 1		HUMBER	
DIST.		REV.	
DIJA BC-EK-0-0		B	

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS									
ENGINEERING SPECIFICATION								DATE 8/13/70	
TITLE PCB-E READER PUNCH CONTROL									
REVISIONS									
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE			
ENG	Larry Narhi	APPD	PCB-EA-1	SIZE CODE	NUMBER	REV			
DEC FORM NO. DRA 1084							SHEET 1 OF 3		

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TITLE PCB-E READER PUNCH CONTROL				CONTINUATION SHEET		
4.1 Continued - Punch IOT's PCE 6020 Clr Interrupt Enable PSF 6021 Skip if Punch Flag = 1 PCF 6022 Clr Flag PPC 6024 Load Buffer & Punch Character PLS 6026 Clr Flag, Load & Punch 4.2 There are no maintenance instructions. 4.3 Data format is parallel for both reader and punch. For the reader 8 bits are loaded from photo-cell into the reader buffer then onto the Data Bus. Then at the appropriate time the data is strobed into AC bits 4 thru 11. AC 11 being the least significant bit. The punch buffer is loaded from Data Bus bits 4 thru 11 then the contents of the punch buffer select or de-select solenoid drivers which punch the data. 4.4 There are no timing diagrams. 4.5 There are no operator controls except for one potentiometer that sets the clock circuit for a reader speed of 300 char/sec. This control is used during initial reader adjustment. 5. Interface Specifications 5.1 All bus signals conform to the bus rules of the PDP-8/E. All signals between the reader and punch appear on pins of the 2 connectors that are pin compatible with the PCB/L. 5.2 The following is a list of reader, punch variations for the 8/E. PC04-BL Reader Punch, 60 cycle PC04-BM Reader Punch, 50 cycle PC04-PL Punch only, 60 cycle PC04-PM Punch only, 50 cycle PC04-RB Reader only or PR8-ES 110 CPS Paper Tape Reader, 110V 50/60 cycles						
DEC FORM NO. DRA 1084				SIZE CODE A SP	NUMBER PCB-EA-1	REV 3
				SHEET 3 OF 3		

TITLE PCB-E READER PUNCH CONTROL				CONTINUATION SHEET		
1. Overall Description The PCB-E is the reader/punch control for the PDP-8/E computer. The PCB/E is designed to control the reader/punch type PC04.						
2. General Specification 2.1 The interface, entirely TTL, is designed around the constraints of the PDP-8/E bus. All connections to the reader/punch is via shielded flex-print connected to edge-type connectors. 2.2 Punch Done Timing may be either 4.5 milliseconds or 10 milliseconds, jumper selectable on the board. Reader timing may be slowed by removing two jumpers, for use with the PR8-ES Reader. 2.3 The entire interface is contained on one 8 1/2" by 11" quad board. 2.4 The temperature limits are 32F to 120F and relative humidity 10% to 90%, non-condensing. The power requirements are: + 5 volts at 1.25 amps. -15 volts at 75 millamps. 2.5 The control is completely compatible with all software that is PCB/L oriented. 3. Specification of Vendor-Supplied Equipment 3.1 See applicable purchase specification for board components. 4. Programming 4.1 Reader IOT's RPE 6010 Set interrupt enable for reader and punch RSF 6011 Skip if reader flag = 1 RRB 6012 Read reader buffer, clr flag RFC 6014 Clr flag, fetch character 6016 Same as 12 and 14 NOTE: Initialize sets program Interrupt Enable Flag						
DEC FORM NO. DRA 1084				SIZE CODE A SP	NUMBER PCB-EA-1	REV 3
				SHEET 2 OF 3		

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DIGITAL EQUIPMENT CORPORATION

MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION

DATE 5/18/71

PGS-E ACCEPTANCE PROCEDURE (Field)						
REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

continuous or as specified in the diagnostic write-up will be classified defective and returned to Production for repair.

ENGINEERING SPECIFICATION

TITLE	PC8-E ACCEPTANCE PROCEDURE
1. PURPOSE	1.1. To establish a procedure for the acceptance of PC8-E.
2. SCOPE	2.1. This procedure applies to the acceptance of PC8-E.
3. REFERENCES	3.1. PC8-E Acceptance Procedure.
4. RESPONSIBILITIES	4.1. The responsibility for the acceptance of PC8-E lies with the PC8-E Acceptance Committee.
5. PROCEDURE	5.1. The PC8-E Acceptance Committee shall review and approve the PC8-E Acceptance Procedure.
6. RECORDS	6.1. The PC8-E Acceptance Committee shall maintain records of the acceptance of PC8-E.
7. APPENDICES	7.1. PC8-E Acceptance Procedure.

continuous or as specified in the diagnostic write-up
will be classified defective and returned to Production
for repair.

SIZE	CODE	NUMBER	REV
A	SP	7665138-C-0	

ENGINEERING SPECIFICATION

TITLE	PC8-E ACCEPTANCE PROCEDURE (Field)
1. PURPOSE	1. PURPOSE
2. SCOPE	2. SCOPE
3. REFERENCES	3. REFERENCES
4. DEFINITIONS	4. DEFINITIONS
5. PROCEDURE	5. PROCEDURE
6. RECORDS	6. RECORDS
7. APPENDICES	7. APPENDICES
8. REVISIONS	8. REVISIONS
9. APPROVALS	9. APPROVALS
10. DISTRIBUTION	10. DISTRIBUTION
11. HISTORY	11. HISTORY
12. OTHER INFORMATION	12. OTHER INFORMATION
13. COMMENTS	13. COMMENTS
14. SIGNATURES	14. SIGNATURES
15. DATE	15. DATE
16. PAGE NO.	16. PAGE NO.
17. TOTAL PAGES	17. TOTAL PAGES
18. REVISION NO.	18. REVISION NO.
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128. REVISION DESCRIPTION	128. REVISION DESCRIPTION
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131. REVISION	

1. Check Key Sheet and Construction Requisition to see which of the following is required.
 - A. PR8-E
 - B. PP8-E
 - C. PC8-E
 - D. M84 β
2. Check M84 β module for proper revision (circuit schematic and eth). Also check for date coding.
3. Make sure M84 β module has been heat tested.
4. Check G918 module for correct revisions.
5. Check mechanical workings of reader and punch (nothing is binding).
6. Insure M84 β is in proper module assignment list along with all other modules.
7. Load in diagnostic Maindec-8B-D2CM.
8. A. Run Test 7, fifteen minutes on each speed.
Punch blank leader. Load reader with blank leader.
Load 2 $\beta\beta$. Start $\beta\beta\beta$ 7. S.R. 6 varies speed.
While running Test 7, move cable connections slightly.
B. Test 13 reader speed test.
C. Install a loop tape in reader.
Load 2 $\beta\beta$. Start $\beta\beta$ 13. Time reader for 30 seconds.
Stop reader by putting bit β on a one and then back to a zero. It will type out; it must be over 3 $\beta\beta$ cps.
9. Test 14 punch speed test
Turn punch on. Load 2 $\beta\beta$. Start $\beta\beta$ 14. After 6 β seconds, set bit β to 1 and then back to 0. VTY types out punch speed. Must be over 50 cps.
10. Module assignment list and physical order of modules must match each other before shipping.
11. Any PC8-E which while performing Acceptance Test halts, generates error print outs, garble, or run- other than

1. Check Key Sheet and Construction Requisition to see which of the following is required.

- A. P88-Z
 - B. P88-Z
 - C. P88-Z
 - D. M848
2. Check M848 module for proper revision (circuit schematic and etch). Also check for date coding.
 3. Make sure M848 module has been heat tested.
 4. Check G918 module for correct revisions.
 5. Check mechanical workings of reader and punch (nothing is binding).
 6. Insure M848 is in proper module assignment list along with all other modules.
 7. Load in diagnostic Maindec-8S-D2CA.
 8. A. Run Test 7, fifteen minutes on each speed.
Punch blank leader. Load reader with blank leader.
Load 288. Start 8887. S.R. 6 varies speed.
While running Test 7, move cable connections alightly.
B. Test 13 reader speed test.
Install a loop tape in reader.
Load 288. Start 8813. Time reader for 30 seconds.
Stop reader by putting bit 8 on a one and then back to a zero. It will type out; it must be over 388 cps.
 - C. Test 14 punch speed test
Turn punch on. Load 288. Start 8814. After 68 seconds set bit 8 to 1 and then back to 0. TTY types out punch speed. Must be over 50 cps.
 10. Module assignment list and physical order of modules must match each other before shipping.
 11. Any PC8-Z which while performing Acceptance Test halts, generates error print outs, garble, or run- other than

DEC FORM NO : 6-1022

QUEST 2 OF 3

MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY

DATE
Ken: GULICK 3/2/71

DATE KEN GULICK 3/2/71

SECTION

ISSUED SECT.

DATE	3-5-71	22	DATE
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PROD *CR* 10/10/71
DATE 3/17/71

DESCRIPTION

DWG NO. / PART NO.

PCØ4-BL PUNCH AND READER

2	D-UA-BCØ8K-Ø-Ø
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READER PINCH

4	D-UA-PCQA-Q-Q
---	---------------

PCØ4-BM PUNCH AND READER

0-0-556807-01W-B	
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CLAMP

9006557	:
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On 11 JAN 1973

15000000

Tape DBL Coated Press. 3/8

A/R	A/R
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PC8-E
PC8-EA

QUANTITY / VARIATION

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			LEGEND		QUANTITY / VARIATION													
ACCESSORY LIST																		
MADE BY J. Mc Cluskey		CHECKED <i>[Signature]</i>	SECTION		PA PAPER TAPE ASCII													
DATE 4/10/72		DATE 4/14/72			PB PAPER TAPE BINARY													
ENG L. Narhi		PROD <i>[Signature]</i>	ISSUED SECT.		PM PAPER TAPE READ-IN-MODE													
DATE 4/10/72		DATE 4/14/72																
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION			PC8-E	PC8-EA	PC8-EH	PC8-EC					KIT CHECK	BY	DATE	INSTALLATION CHECK	BY	DATE
1	PC04-BL	High Speed Reader and Punch 60 HZ			1	0	0	0										
2	PC04-BM	High Speed Reader and Punch 50 HZ			0	1	0	0										
3	PC04-BL-TABLETOP	High Speed Reader And Punch 60 HZ Tabletop			0	0	1	0										
		Version with P.C. Cover																
4	PC04-BM-TABLETOP	High Speed Reader and Punch 50 HZ Tabletop			0	0	0	1										
		Version with P.C. Cover																
5	M840	High Speed Reader and Punch Control				1	1	1										
6	BC08-K	Control Cables			2	2	2	2										
7	LIBKIT-8E-PC8E-01	Maindecs for the High Speed Reader and Punch			1	1	1	1										
8	DEC-00-PC0A-DC1	PC04/PC05 Paper tape Reader Punch Manual			1	1	1	1										
9	ROYAL MC BEE	High Speed Punch Maintenance Manual			1	1	1	1										
10	DEC-8E-PC8E-0-PC8E	PC8/E Maintenance Manual			1	1	1	1										
11	A-ML-PL3-E	PC8/E Print set			1	1	1	1										
12	DEC-00-PC-4/5-DWG	PC04/PC05 Paper Tape Reader Punch ^{Engineering} Drawings			1	1	1	1										
13	36-5103	Box of Fanfold tape			4	4	1	1										
NOTE: THE FOLLOWING ITEMS MUST BE ADDED FOR FIELD ADD-ON'S ONLY																		
14	90-8851	Mounting hardware Bag			1	1	0	0										
15	91-7673-06	AC Line Cord 6 Ft.			1	1	1	1										

TITLE Accessory List For PC8-E		ASSY. NO.		SIZE A	CODE AL	NUMBER PC-E-3		REV B	FROM NO PC8E	
SHEET OF				DIST.						



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TWX: 710-347-6012 Cable: DIGITAL MAYN Tex: 94-8457

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